

CRPL F23

National Bureau of Standards

AUG 21 1947

IONOSPHERIC DATA

ISSUED

JULY, 1946

PREPARED BY CENTRAL RADIO PROPAGATION LABORATORY
National Bureau of Standards
Washington, D.C.

On July 1, 1946, the Interservice Radio Propagation Laboratory ceased to exist as such. At that time the duties and functions of the IRPL were absorbed by the Central Radio Propagation Laboratory, established at the National Bureau of Standards on May 1, 1946, to act as an organization for centralizing and coordinating basic research and prediction service in the field of radio wave propagation.

The IRPL-F series, "Ionospheric Data", commencing with this issue, is known as the CRPL-F series. This issue bears the designation CRPL-F23.

IONOSPHERIC DATA

CONTENTS

TERMINOLOGY AND SCALING PRACTICES	Page 5
MONTHLY AVERAGE AND MEDIAN VALUES OF IONOSPHERIC DATA	Page 7

Provisional data

June 1946

Clyde, Baffin I. (Median values)	Table 1
Fairbanks, Alaska (Median values)	Table 2
Prince Rupert, Canada (Median values)	Table 3
Adak, Alaska (Median values)	Table 4
St. John's, Newfoundland (Median values)	Table 5
Ottawa, Canada (Median values)	Table 6
Boston, Massachusetts (Median values)	Table 7
San Francisco, California (Median values)	Table 8
Baton Rouge, Louisiana (Median values)	Table 9
Maui, Hawaii (Median values)	Table 10
Trinidad, Brit. West Indies (Median values)	Table 11
Christmas I. (Median values)	Table 12
Watheroo, W. Australia (Median values)	Table 13

May 1946

Leyte, Philippine Is. (Median values)	Table 14
Christmas I. (Median values)	Table 15
Johannesburg, Union of South Africa (Median values)	Table 16
Watheroo, W. Australia (Median values)	Table 17

April 1946

Bukhta Tikhaya, U.S.S.R. (Average values)	Table 18
Burghead, Scotland (Average values)	Table 19
Sverdlovsk, U.S.S.R. (Average values)	Table 20
Tomsk, U.S.S.R. (Average values)	Table 21
Moscow, U.S.S.R. (Average values)	Table 22

March 1946

Burghead, Scotland (Average values)	Table 23
Moscow, U.S.S.R. (Average values)	Table 24

Final dataJune 1946

Washington, D. C. (Median values)	Table 25
	Figs. 1 and 2

May 1946

Fairbanks, Alaska (Median values)	Table 26
	Figs. 3 and 4
Churchill, Canada (Median values)	Table 27
	Figs. 5 and 6
Prince Rupert, Canada (Median values)	Table 28
	Figs. 7 and 8
Ottawa, Canada (Median values)	Table 29
	Figs. 9 and 10
Boston, Massachusetts (Median values)	Table 30
	Figs. 11 and 12
San Francisco, California (Median values)	Table 31
	Figs. 13 and 14
Tokyo, Japan (Median values)	Table 32
	Figs. 15 and 16
Baton Rouge, Louisiana (Median values)	Table 33
	Figs. 17 and 18
San Juan, Puerto Rico (Median values)	Table 34
	Figs. 19 and 20
Trinidad, Brit. West Indies (Median values)	Table 35
	Figs. 21 and 22
Huancayo, Peru (Median values)	Table 36
	Figs. 23 and 24

April 1946

Tromso, Norway (Median values)	Table 37
	Figs. 25 and 26
Tokyo, Japan (Median values)	Table 38
	Figs. 27 and 28
Cairo, Egypt (Median values)	Table 39
	Figs. 29 and 30
Chungking, China (Median values)	Table 40
	Figs. 31 and 32
Hobart, Tasmania (Median values)	Table 41
	Figs. 33 and 34
Christchurch, N.Z. (Median values)	Table 42
	Figs. 35 and 36

March 1946

Oslo, Norway (Median values)	Table 43
	Figs. 37 and 38
Leyte, Philippine Is. (Median values)	Table 44
	Figs. 39 and 40

Final dataMarch 1946 (continued)

Colombo, Ceylon (Median values)	Table 45 Figs. 41 and 42
Brisbane, Australia (Median values)	Table 46 Figs. 43 and 44
Watheroo, W. Australia (Median values)	Table 47 Figs. 45 and 46
Canberra, Australia (Median values)	Table 48 Figs. 47 and 48
Hobart, Tasmania (Median values)	Table 49 Figs. 49 and 50
Falkland Is. (Median values)	Table 50 Figs. 51 and 52

February 1946

Rarotonga I. (Median values)	Table 51 Fig. 53
Falkland Is. (Median values)	Table 52 Figs. 54 and 55

January 1946

Rarotonga I. (Median values)	Table 53 Fig. 56
--	---------------------

December 1945

Slough, England (Median values)	Table 54 Fig. 57
Rarotonga I. (Median values)	Table 55 Fig. 58

November 1945

Slough, England (Median values)	Table 56 Figs. 59 and 60
Rarotonga I. (Median values)	Table 57 Fig. 61
Kermadec Is. (Median values)	Table 58 Figs. 62 and 63

October 1945

Rarotonga I. (Median values)	Table 59 Figs. 64 and 65
Kermadec I. (Median values)	Table 60 Figs. 66 and 67

September 1945

Kermadec Is. (Median values)	Table 61 Figs. 68 and 69
--	-----------------------------

Final dataAugust 1945

Kermadec Is. (Median values) Table 62
Figs. 70 and 71

July 1945

Kermadec Is. (Median values) Table 63
Figs. 72 and 73

June 1945

Kermadec Is. (Median values) Table 64
Figs. 74 and 75

IONOSPHERIC DATA FOR EVERY DAY AND HOUR Page 10

June 1946

Washington, D. C.

h ¹ F2	Table 65
f ^o F2	Tables 66 and 67
h ¹ F1	Table 68
f ^o F1	Table 69
h ¹ E	Table 70
f ^o E	Table 71
E _s	Table 72
F2-M1500	Table 73
F2-M3000	Table 74
F1-M3000	Table 75
E-M1500	Table 76

IONOSPHERE DISTURBANCES Page 10

Ionospheric Storminess Table 77

Ionospheric character and principal storms observed
at Washington, D. C., June 1946.

Sudden Ionosphere Disturbances

Sudden ionosphere disturbances observed at Washington,
D. C. during June 1946. Table 78

Radio Propagation Quality Figures, Compared with CRPL Warnings
and CRPL Probable Disturbed Period Forecasts.

North Atlantic and North Pacific quality figures,
May 1946, provisional. Table 79

AMERICAN RELATIVE SUNSPOT NUMBERS Page 11

Daily Median Values of American Relative Sunspot
Numbers, June 1946

Table 80

IONOSPHERIC DATA FROM RUSSIAN STATIONS FOR THE SOLAR

ECLIPSE OF 9 JULY 1945 Page 11

Leningrad, U.S.S.R., 7 July Through 11 July, 1945 Fig. 76

Moscow (Balashiha), U.S.S.R., 7 July Through

11 July, 1945 Fig. 77

Sverdlovsk, U.S.S.R., 7 July Through 11 July, 1945 Fig. 78

UNUSUAL IONOSPHERIC RECORDS AT WASHINGTON, D.C.,

21 MAY 1946 Page 12

Fig. a. 0000 21 May 1946 Page 13

Fig. b. 0030 21 May 1946 Page 13

Fig. c. 0100 21 May 1946 Page 14

Fig. d. 0115 21 May 1946 Page 14

Fig. e. 0130 21 May 1946 Page 15

TERMINOLOGY AND SCALING PRACTICES

The symbols and terminology used in this report are those adopted by the International Radio Propagation Conference, and given in detail on pages 24 to 26 of the report IRPL-C61, "Report of International Radio Propagation Conference", and in the section on "Terminology", in reports IRPL-F1, 2, 3, 4, 5.

In the past, ionospheric conditions were summarized on a monthly basis by using average or mean values, for each hour of the day, for each month. However, following the recommendations of the International Radio Propagation Conference, held in Washington 17 April to 5 May 1944, beginning with data for 1 Jan. 1945, median values were used by IRPL wherever possible. Thus, median values are given for Washington, for all stations reporting directly to the CRPL, for the Canadian stations, and for all others sending in detailed tabulations to the CRPL, from which medians can be computed.

Where averages are reported, they are, at any hour, the average for all the days during the month for which numerical data existed.

The monthly median values used here are the values equaled or exceeded on half the days of the month at the given hour. The following

conventions are used in determining the medians for hours when no measured values are given because of equipment limitations and ionospheric irregularities. Symbols used are those given in the report referred to above, IRPL-C61.

a. For all ionospheric characteristics:

Values missing because of A, B, C or F (see terminology referred to above) are omitted from the median count.

b. For critical frequencies and virtual heights:

Values missing because of E are counted as equal to or less than the lower limit of the recorder.

Values missing because of D are counted as equal to or greater than the upper limit of the recorder.

Values missing because of G are counted:

1. For f^oF_2 , as equal to or less than f^oF_1 .

2. For $h'F_2$, as equal to or greater than the median.

Values missing for any other reason are omitted from the median count.

c. For muf factors (M-factors):

Values missing because of G are counted as equal to or less than the median.

Values missing for any other reason are omitted from the median count.

d. For sporadic E (E_s):

Values of fE_s missing because no E_s reflections appeared, the equipment functioning normally otherwise, are counted as equal to or less than the lower limit of the recorder.

Values of fE_s missing for any other reason, and values of hE_s missing for any reason at all, are omitted from the median count.

Beginning with data for November 1945, doubtful monthly median values for ionospheric observations at Washington, D. C., are indicated by parentheses, in accordance with the **practice** already in use for doubtful hourly values. The following are the conventions used to determine whether or not a median value is doubtful:

1. If only four values or less are available, no median value is computed, the data being considered insufficient.

2. For the F2 layer, if only five to nine values are available, the median is considered doubtful. The E and F1 layers are so regular in their characteristics that, so long as there are at least five values, the median is not considered as doubtful.

3. For all layers, if more than half of the values used to compute

the median are doubtful (either doubtful or interpolated), the median is considered doubtful.

It is expected that this practice will be of assistance in evaluating the monthly median Washington data.

The same conventions are used by the CRPL in computing the medians from tabulations of daily and hourly data for stations other than Washington, beginning with the tables in IRPL-F18.

MONTHLY AVERAGE AND MEDIAN VALUES OF IONOSPHERIC DATA

The ionospheric data given here in graphical and tabular form were assembled by the Central Radio Propagation Laboratory for analysis and correlation, incidental to CRPL predictions of radio propagation conditions. The following are the sources of the data:

Australian Council for Scientific and Industrial Research,
Radio Research Board, Australia:
Brisbane, Australia
Canberra, Australia
Cape York, Australia
Hobart, Tasmania

British National Physical Laboratory, and Inter-Services Ionosphere Bureau:
Slough, England
Great Baddow, England
Burghead, Scotland
Capetown, Union of S. Africa
Colombo, Ceylon
Oslo, Norway
Cairo, Egypt
Falkland Is.

Canadian Radio Wave Propagation Committee:
Churchill, Canada
Ottawa, Canada
St. John's, Newfoundland
Prince Rupert, Canada
Clyde, Baffin I.
Victoria Beach, Canada
Swan River, Manitoba (Mobile unit)
The Pas, Manitoba (Mobile unit)

New Zealand Radio Research Committee:
Kermadec Is.
Christchurch (Canterbury University College Observatory)

New Zealand Radio Research Committee: (continued)

Campbell I.
Pitcairn I.
Rarotonga I.

South African Council for Scientific and Industrial Research:

Johannesburg, Union of S. Africa

Scientific Research Institute of Terrestrial Magnetism, Moscow, U.S.S.R.:

Bukhta Tikhaya, U.S.S.R.
Tomsk, U.S.S.R.
Sverdlovsk, U.S.S.R.
Moscow, U.S.S.R.
Leningrad, U.S.S.R.
Alma Ata, U.S.S.R.

Carnegie Institution of Washington (Department of Terrestrial Magnetism):

Christmas I.
Fairbanks, Alaska (University of Alaska, College, Alaska)
Maui, Hawaii
Trinidad, Brit. West Indies
Huancaayo, Peru
Watheroo, W. Australia
Adak, Alaska

United States Army Signal Corps:

Leyte, Philippine Is.
Guam I.
Tokyo, Japan

National Bureau of Standards:

Washington, D. C.

Stanford University:

San Francisco, California

Louisiana State University:

Baton Rouge, Louisiana

University of Puerto Rico:

San Juan, P.R.

Harvard University:

Boston, Massachusetts

All India Radio (Government of India), New Delhi, India:

Bombay, India
Delhi, India
Madras, India
Peshawar, India

Radio Wave Research Laboratories, Central Broadcasting Administration:
Chungking, China
Peiping, China

National Wuhan University:
Loshan, China

The tables of "provisional data" give values (1) as reported either to the CRPL or other central laboratory by telephone or telegraph; or (2) which are reported in summary form by stations from which monthly ionospheric data for every day and every hour may normally be expected at a later date.

The tables and graphs of "final data" are correct for the values reported to the CRPL, but, because of variations in practice in the interpretation of records and scaling and manner of reporting of values, may at times give a distorted picture of typical ionospheric characteristics at the station. Some of these errors are due to:

- a. Differences in scaling records where spread echoes are present.
- b. Omission of values where f^oF_2 is less than or equal to f^oF_1 , leading to erroneously high values of monthly average or median values.
- c. Omission of values where critical frequencies are less than the lower frequency limit of the recorder, also leading to erroneously high values of monthly average or median values.

These effects were discussed on pages 6 and 7 of the previous F-series reports, IRPL-F1, 2, 3, 4, and 5.

The dashed-line prediction curves of the graphs of ionospheric data are obtained from the predicted zero-muf contour charts of the CRPL-D series publications. Predictions for individual stations used to construct the charts may be more accurate than the values read from the chart since some smoothing of the contours is necessary to allow for the longitude effect within a zone.

Discrepancies between predicted and observed values are often ascribable to these effects.

IONOSPHERIC DATA FOR EVERY DAY AND HOUR

These data, observed at Washington, D.C., follow the scaling practices given in the report IRPL-C61, "Report of International Radio Propagation Conference", pages 36 to 39, and the median values are determined by the conventions given under "Terminology and Scaling Practices" above.

IONOSPHERE DISTURBANCES

Table 77 presents ionosphere character figures for Washington, D.C., during June 1946, as determined by the criteria presented in the report IRPL-R5, "Criteria for Ionospheric Storminess", together with American magnetic K-figures which are usually covariant with them.

Table 79 gives provisional radio propagation quality figures for North Atlantic and North Pacific areas, for 01 to 12 and 13 to 24 GCT, May 1946, compared with the CRPL daily radio disturbance warnings, which are primarily for the North Atlantic paths, the CRPL weekly radio propagation forecasts of probable disturbed periods, and the half-day American geomagnetic K-figures.

The radio propagation quality figures for the North Atlantic were prepared from radio traffic and ionospheric data reported to the CRPL, in the manner described in detail in report IRPL-R31, "North Atlantic Radio Propagation Disturbances October 1943 through October 1945", issued 1 Feb. 1946.

The radio propagation quality figures for the North Pacific were prepared from radio traffic and ionospheric data reported to the CRPL, in a manner similar to that of IRPL-R31. The master scale of IRPL-R31 was used to formulate conversion scales for the North Pacific reports. In the future the North Pacific radio propagation quality figures reported will be prepared from these revised conversion scales rather than, as hitherto, from the conversion scales of report IRPL-R13, "Ionospheric and Radio Propagation Disturbances, October 1943 through February 1945", issued 24 May 1945.

These radio propagation quality figures give a consensus of opinion of actual radio propagation conditions as reported by the half day over the two general areas. It should be borne in mind, however, that though the quality may be disturbed according to the CRPL scale, the cause of the disturbance is not necessarily known. There are many variables that must be considered. In addition to ionospheric storminess itself as the

cause, conditions may be reported as disturbed because of seasonal characteristics, such as are particularly evident in the pronounced day and night contrast over North Pacific paths during the winter months, or because of improper frequency usage for the path and time of day in question. Insofar as possible, frequency usage is included in rating the reports. Where the actual frequency usage is not shown in the report to the CRPL, it has been assumed that the report is made on the use of optimum working frequencies for the path and time of day in question. Since there is a possibility that all of the disturbance shown by the quality figures is not due to ionospheric storminess alone, care should be taken in using the quality figures in research correlations with solar, auroral, geomagnetic, or other data. Nevertheless, these quality figures do reflect a consensus of opinion of actual radio propagation conditions as found on any one half-day in either of the two general areas.

AMERICAN RELATIVE SUNSPOT NUMBERS

Table 80 presents the daily median values of relative sunspot numbers as reported by American observers. The reports have been reduced, by appropriate constants, approximately to the Zurich scale of relative sunspot numbers. The monthly relative sunspot number is the mean of the daily median values listed in the table.

IONOSPHERIC DATA FROM RUSSIAN STATIONS FOR THE SOLAR ECLIPSE OF 9 JULY, 1945

Figs. 76, 77, and 78 present ionospheric data observed at Moscow, Leningrad, and Sverdlovsk, all in the U.S.S.R., for the period 7 through 11 July 1945. The data are presented in the same form as data for this period from other stations, previously published in IRPL-F13, September 1945, and IRPL-F14, October 1945.

The time used for the Moscow graph is 30°E Meridian. The times used for the other two graphs were not specified, but were probably 30°E Meridian for Leningrad and 60°E Meridian for Sverdlovsk. The approximate percentage of totality at maximum eclipse, and the approximate times of beginning, maximum, and ending of eclipse, in Greenwich Civil Time, appear in the table below, for comparison.

The graph for Moscow shows a slight dip in the curve for f^oF_2 occurring at about the time of the eclipse. No other effect that might be ascribed to the eclipse is evident on the graphs for the three stations.

Since, as in the previously published data, the random variation from day to day is as great as, or greater than the eclipse effects, no further conclusions can be drawn at this time concerning the effects of the eclipse on the ionosphere.

These data were furnished by the Scientific Research Institute of Terrestrial Magnetism, Moscow, U.S.S.R.

Location	Approximate time of Eclipse (GCT)			Approximate percentage of total eclipse
	Beginning	Maximum	Ending	
Leningrad	13h 06 m	14h 13m	15h 14m	98%
Moscow	13h 17m	14h 23m	15h 24m	96%
Sverdlovsk	13h 24m	14h 22m	after sunset	87%

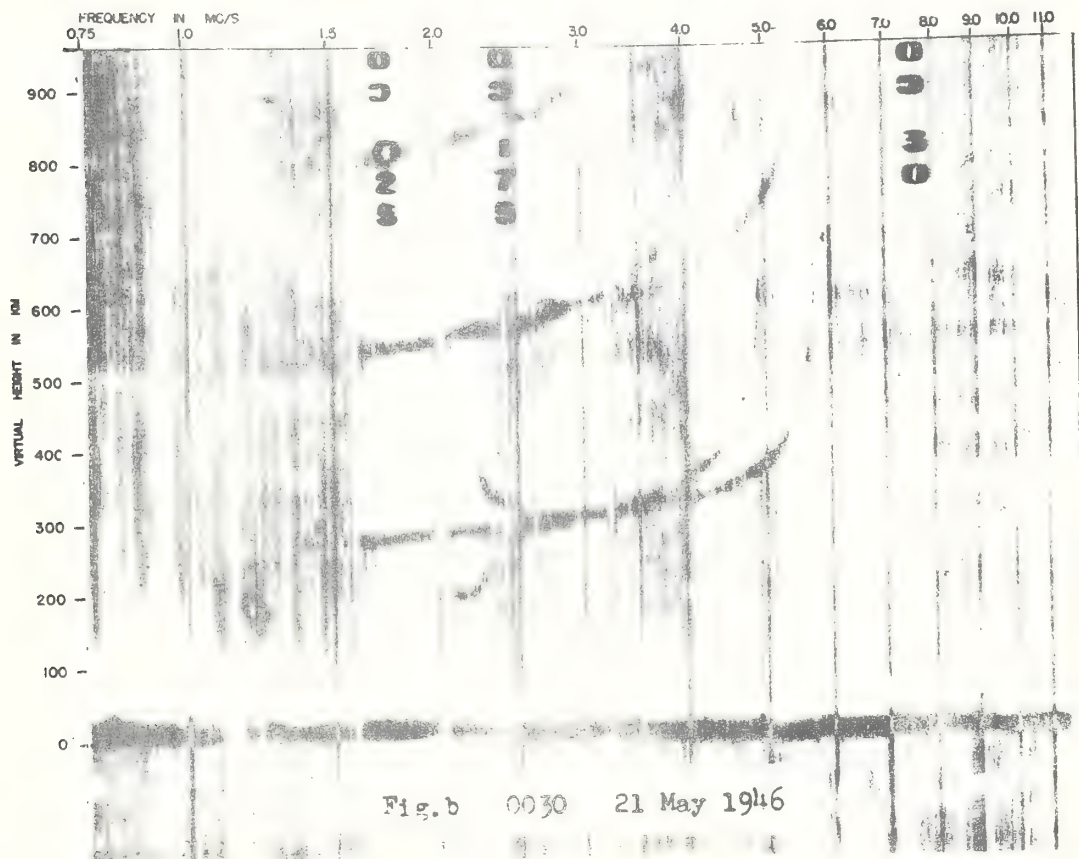
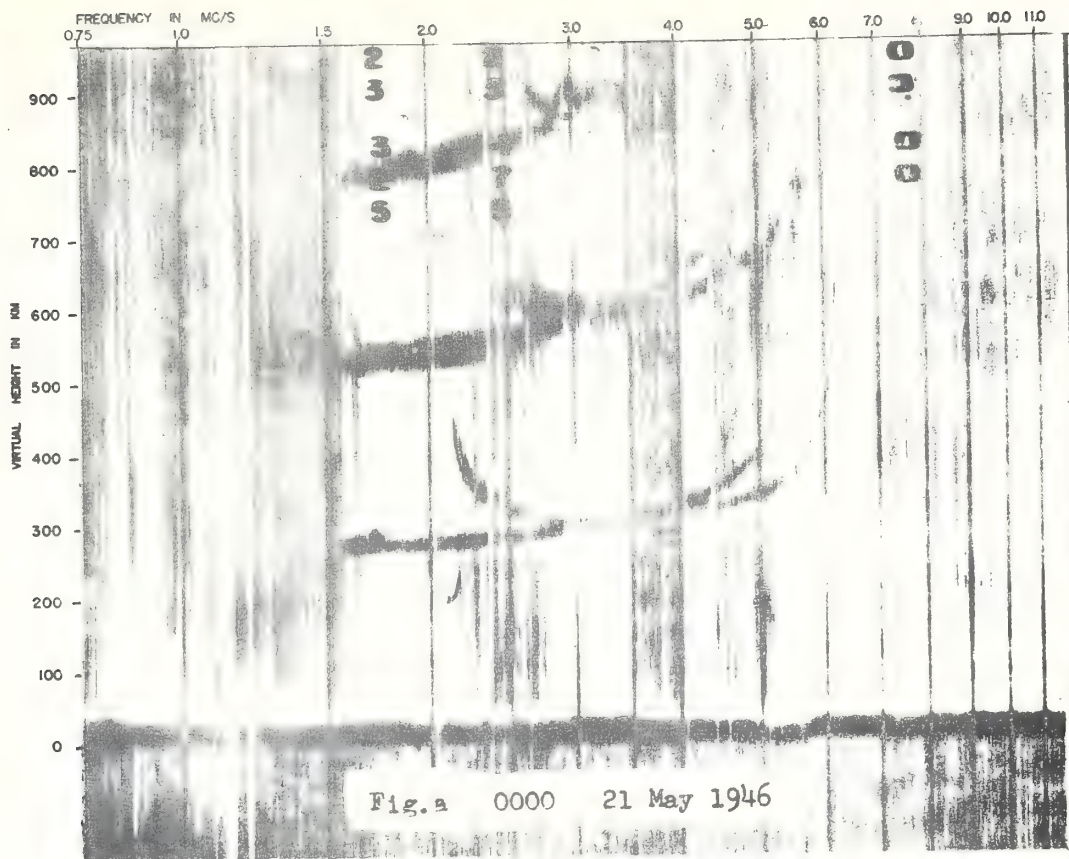
UNUSUAL IONOSPHERE RECORDS AT WASHINGTON, D. C., 21 MAY, 1946

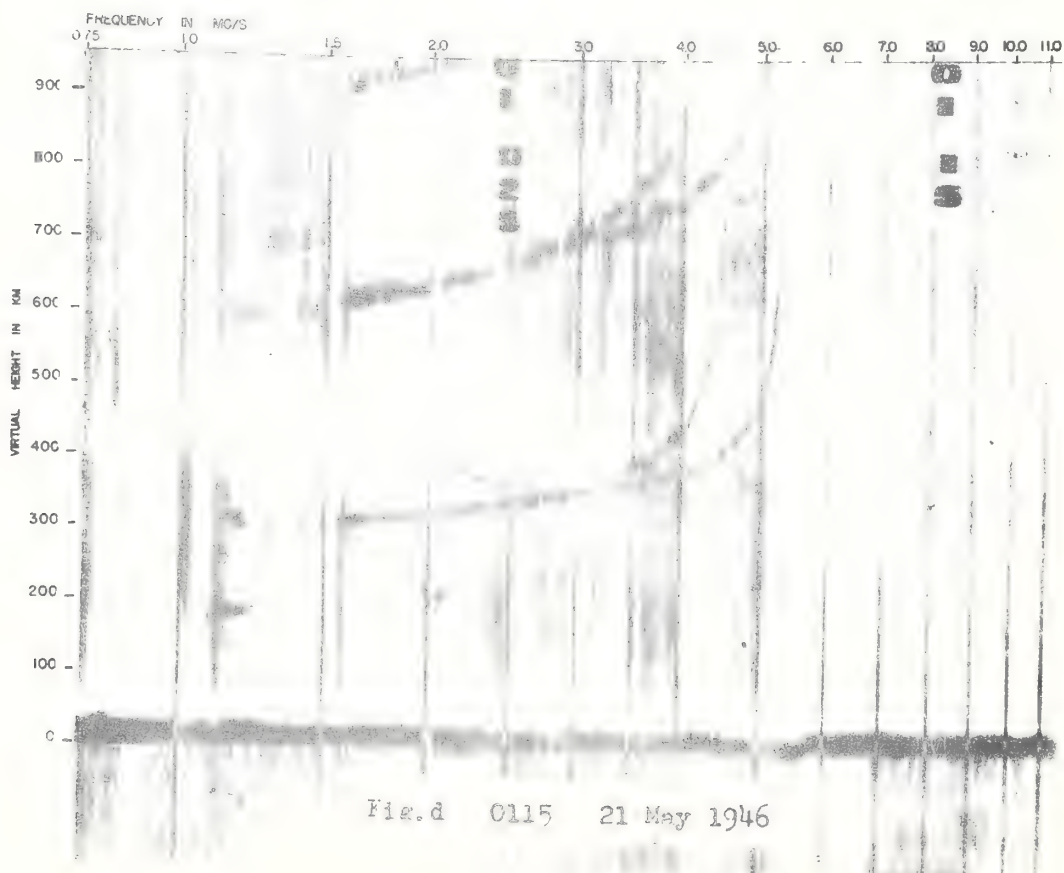
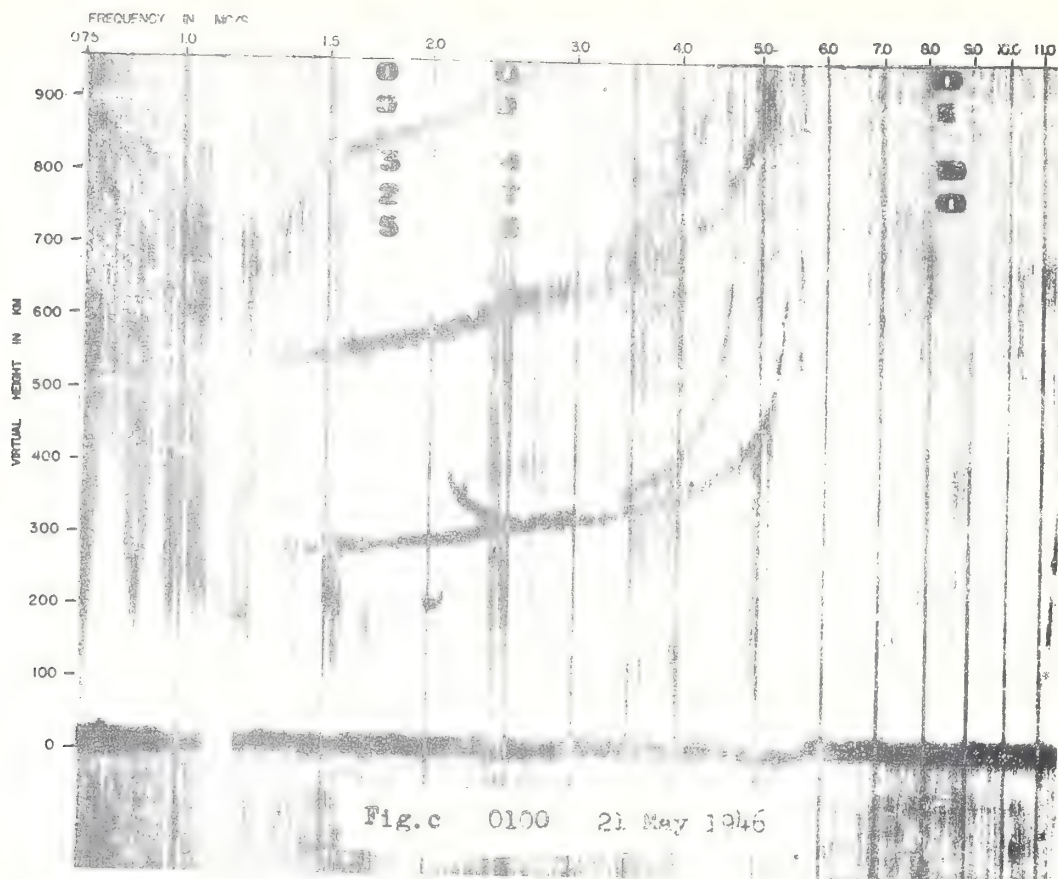
The ionosphere records at Washington, D. C., showed an unusual phenomenon for this location during the period 0000 to 0130, 75°W. meridian time, on 21 May 1946. This was a disturbed period, both magnetically and ionospherically.

The records showed echoes returning from a height between the E and F regions, the traces showing the group retardation customarily shown as a critical frequency is approached.

Ionization similar to E_s , but at higher heights, is often observed at Washington during disturbed periods. This type of sporadic ionization sometimes occurs at F-layer heights. The occurrence from 0000 to 0130 on 21 May 1946 is unusual in that group retardation is shown, with definite indications of a critical frequency of about 1.2 Mc. This phenomenon occurs frequently in the auroral zone, but is very rarely observed at Washington, D. C., and then only during disturbed periods.

The records are reproduced in figures a, b, c, d, and e. From 0000 to 0100, interference by broadcasting stations permits only the extraordinary trace to be seen. The 0115 and 0130 records show the ordinary trace as well.





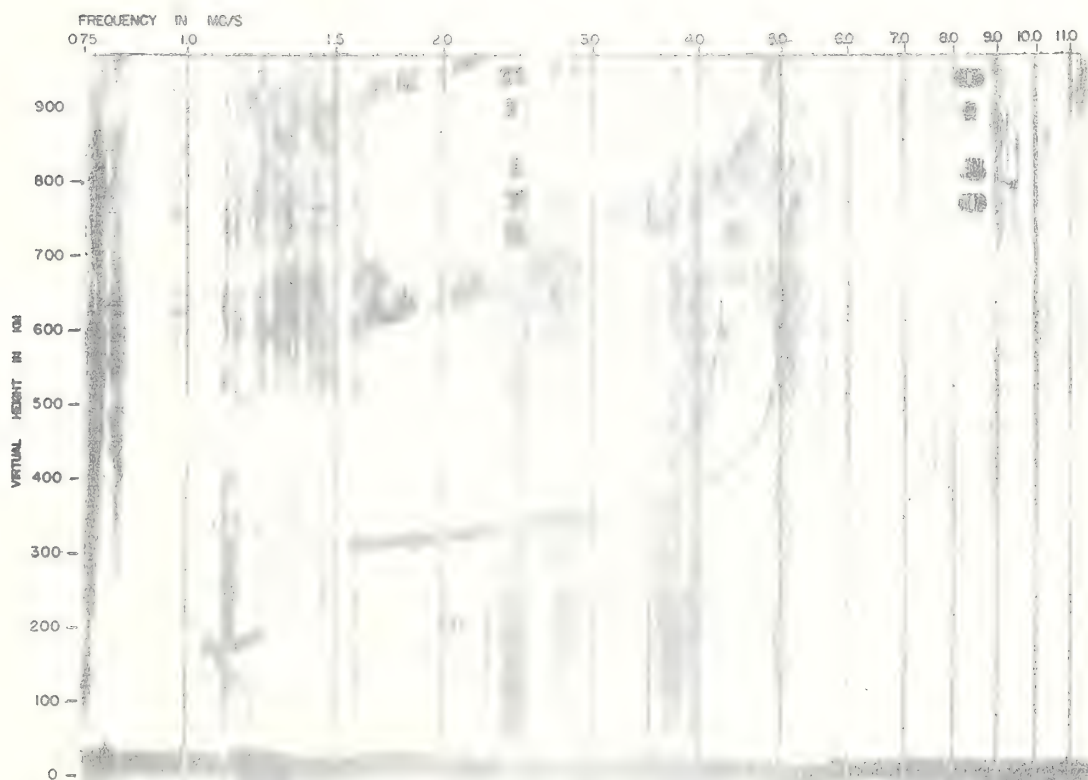


Fig. 0130 21 May 1946

ERRATA

1. IRPL-F18, p. 11, last par.:
Interchange the last word of line 4, "Phys.", with the seventh word of line 13, "Roy".
2. IRPL-F21, p. 12, last paragraph should read:
The SID on 6 February indicated the absorption effects on various frequencies. The W8xal, 6080 kc, and XEWW, 9500 kc, intensities recorded at Sterling, Va., were so completely absorbed after the first SID at 1552 GCT that the second SID at 1956 GCT was barely able to be observed, while the higher frequencies showed almost complete recovery before the occurrence of the second SID. The third SID occurred later in the day from 2132-2205 GCT and was not intense enough to affect the paths eastward.
3. IRPL-F21, p. 13, top, second sentence should read:
This will give us a measure of solar flare activity throughout the whole Greenwich day.
4. IRPL-F21, Table 47 should read at hours indicated:

<u>Time</u>	<u>f^oF2</u>
0000	5.6
0600	4.7
0700	5.8

Corresponding changes in the graphs of Figs. 44 and 45 of same issue should be visualized.

5. IRPL-F21, Table 46:
Insert "D" in f^oF2 column at 1300 and 1400.
6. IRPL-F22, p. 7, top:
Insert title, "MONTHLY AVERAGE AND MEDIAN VALUES OF IONOSPHERIC DATA".

Table 1 (Provisional Data)

Clyde, Raffen I. (70.5°N, 66.6°W)

June 1946

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E
00							00	4.4					
01	4.4						01	4.5					
02	4.6						02	4.6					
03	4.4						03	4.4					
04	4.4						04	4.4					
05	4.4						05	4.4					
06	4.4						06	4.4					
07	4.5						07	4.5					
08	4.9						08	4.9					
09	5.0						09	5.0					
10	5.2						10	5.2					
11	5.4						11	5.4					
12	5.2						12	5.2					
13	5.2						13	5.2					
14	5.0						14	5.0					
15	5.0						15	5.0					
16	5.0						16	5.0					
17	4.8						17	4.8					
18	4.8						18	4.8					
19	4.9						19	4.9					
20	4.7						20	4.7					
21	4.6						21	4.6					
22	4.7						22	4.7					
23	4.5						23	4.5					

Time: 75.0°W.

Sweep: 2.0 Mc to 15.0 Mc in one minute.

Median values.

Table 3 (Provisional Data)

Prince Rupert, Canada (54.5°N, 130.5°W)

June 1946

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E
00							00	4.4					
01	4.0						01	4.0					
02	3.5						02	3.5					
03	3.3						03	3.3					
04	3.5						04	3.5					
05	4.4						05	4.4					
06	4.9						06	4.9					
07	5.1						07	5.1					
08	5.5						08	5.5					
09	5.5						09	5.5					
10	5.5						10	5.5					
11	5.7						11	5.7					
12	5.9						12	5.9					
13	5.9						13	5.9					
14	5.8						14	5.8					
15	5.9						15	5.9					
16	6.0						16	6.0					
17	5.8						17	5.8					
18	5.9						18	5.9					
19	5.9						19	5.9					
20	5.9						20	5.9					
21	6.0						21	6.0					
22	5.5						22	5.5					
23	5.3						23	5.3					

Time: 120.0°W.

Sweep: Manual operation.

Median values.

Table 2 (Provisional Data)

Fairbanks, Alaska (64.9°N, 147.8°W)

June 1946

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E
00	330	4.6					00	330	4.6				
01	340	4.6					01	340	4.6				
02	350	5.0					02	350	5.0				
03	370	5.0					03	370	5.0				
04	400	5.2	270	3.4			04	400	5.2	270	3.4		
05	420	5.1	260	3.9			05	420	5.1	260	3.9		
06	430	5.4	250	4.0			06	430	5.4	250	4.0		
07	460	5.5	230	4.2			07	460	5.5	230	4.2		
08	480	5.5	220	4.3			08	480	5.5	220	4.3		
09	440	5.6	220	4.4			09	440	5.6	220	4.4		
10	480	5.6	230	4.6			10	480	5.6	230	4.6		
11	500	5.6	220	4.6			11	500	5.6	220	4.6		
12	470	5.6	220	4.7			12	470	5.6	220	4.7		
13	440	5.8	220	4.8			13	440	5.8	220	4.8		
14	450	5.8	230	4.7			14	450	5.8	230	4.7		
15	460	5.8	230	4.6			15	460	5.8	230	4.6		
16	400	5.8	230	4.5			16	400	5.8	230	4.5		
17	380	5.8	240	4.4			17	380	5.8	240	4.4		
18	330	5.8	240	4.0			18	330	5.8	240	4.0		
19	320	5.6	250	4.0			19	320	5.6	250	4.0		
20	280	5.6	260	3.3			20	280	5.6	260	3.3		
21	280	5.3					21	280	5.3				
22	320	5.3					22	320	5.3				
23	320	4.8					23	320	4.8				

Time: 150.0°W.

Sweep: 15.0 Mc to 0.5 Mc in fifteen minutes.

Median values.

Table 4 (Provisional Data)

Adak, Alaska (51.9°N, 176.6°W)

June 1946

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E
00	270	6.2					00	270	6.2				
01	270	5.8					01	270	5.8				
02	290	5.4					02	290	5.4				
03	310	4.8					03	310	4.8				
04	340	5.2					04	340	5.2				
05	410	5.6					05	410	5.6				
06	380	6.0	220	4.2			06	380	6.0	220	4.2		
07	360	6.4	220	4.5			07	360	6.4	220	4.5		
08	520	5.7	200	4.8			08	520	5.7	200	4.8		
09	520	6.0	200	4.9			09	520	6.0	200	4.9		
10	400	6.8					10	400	6.8				
11	400	6.7					11	400	6.7				
12	380	6.4	200	5.2			12	380	6.4	200	5.2		
13	400	6.6	200	5.0			13	400	6.6	200	5.0		
14	350	6.2	200	5.0			14	350	6.2	200	5.0		
15	370	6.4	220	4.9			15	370	6.4	220	4.9		
16	370	6.3	220	4.8			16	370	6.3	220	4.8		
17	330	6.6	230	4.6			17	330	6.6	230	4.6		
18	290	6.6					18	290	6.6				
19	280	6.8					19	280	6.8				
20	270	7.0					20	270	7.0				
21	260	7.0					21	260	7.0				
22	270	7.0					22	270	7.0				
23	280	6.9					23	280	6.9				

Time: 180.0°W.

Sweep: Manual operation.

Median values.

Table 5 (Provisional Data)

St. John's, Newfoundland (47.6°N, 52.7°W)

June 1946

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fEs	F2-M3000
00		5.6						3.0
01		5.6						3.0
02		4.4						3.0
03		5.2						3.0
04		4.5						3.2
05		4.2						3.3
06		4.8						3.3
07		5.4						3.4
08		4.8						3.3
09		5.7						3.3
10		6.0						3.3
11		6.2						3.2
12		6.2						3.1
13		6.5						3.1
14		6.3						3.1
15		6.2						3.0
16		6.6						3.1
17		7.1						3.1
18		7.0						3.1
19		7.2						3.2
20		7.2						3.2
21		7.2						3.1
22		6.8						3.1
23		6.4						3.0

Time: 75.0°W
Sweep: Manual operation.
Median values.

Table 7 (Provisional Data)

Boston, Massachusetts (42.4°N, 71.2°W)

June 1946

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fEs	F2-M3000
00		5.5						2.6
01		5.2						2.6
02		4.5						2.6
03		4.1						2.7
04		4.3						2.7
05		4.6						2.8
06		4.7						2.9
07		5.5						2.8
08		5.9						2.8
09		6.4						2.7
10		6.5						2.8
11		6.5						2.6
12		6.6						2.7
13		6.8						2.6
14		6.6						2.7
15		6.7						2.6
16		6.6						2.7
17		6.6						2.7
18		6.8						2.7
19		6.9						2.7
20		6.9						2.7
21		6.5						2.7
22		6.7						2.6
23		6.0						2.5

Time: 75.0°W
Sweep: 0.85 Mc to 13.75 Mc in one minute.
Median values.

Table 6 (Provisional Data)

Ottawa, Canada (45.5°N, 75.8°W)

June 1946

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fEs	F2-M3000
00		4.7						2.8
01		4.2						2.9
02		3.6						2.9
03		3.1						2.9
04		3.2						3.0
05		3.6						2.9
06		4.5						3.0
07		5.3						3.0
08		5.2						2.7
09		5.7						2.7
10		5.6						2.7
11		6.0						2.7
12		6.1						2.6
13		6.5						2.6
14		6.5						2.6
15		6.4						2.6
16		6.8						2.6
17		7.0						2.7
18		7.1						2.7
19		7.1						2.7
20		7.2						2.8
21		6.9						2.8
22		6.2						2.8
23		5.4						2.8

Time: 75.0°W
Sweep: 1.03 Mc to 13.5 Mc. Manual operation.
Median values.

Table 8 (Provisional Data)

San Francisco, California (37.8°N, 122.2°W)

June 1946

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fEs	F2-M3000
00		5.3						2.6
01		5.0						2.6
02		4.8						2.6
03		4.7						2.6
04		4.3						2.6
05		4.2						2.8
06		5.2						2.7
07		5.8						2.8
08		6.5						2.6
09		6.6						2.6
10		6.6						2.7
11		7.0						2.7
12		7.2						2.7
13		6.8						2.7
14		7.1						2.8
15		7.0						2.8
16		6.6						2.8
17		6.6						2.9
18		6.4						2.9
19		7.0						3.0
20		6.7						3.0
21		6.6						2.8
22		6.0						2.8
23		5.4						2.8

Time: 120.0°W
Sweep: 0.8 Mc to 12.0 Mc in six minutes. Record centered on 1.0 hour.
Median values.

Table 9 (Provisional Data)

Baton Rouge, Louisiana (30.5°N, 91.2°W) June 1946

Time	h'F2	f°F2	h'F1	f°F1	h'F1	f°F1	f _{min}	f _{max}
00		5.7						2.8
01		5.6						2.9
02		5.1						2.9
03		4.9						2.6
04		4.6						2.8
05		4.7						2.9
06		5.5						3.0
07		6.2						3.0
08		6.4						2.9
09		6.4						2.8
10		6.7						2.8
11		7.0						2.8
12		7.1						2.8
13		7.5						2.8
14		7.7						2.7
15		7.5						2.8
16		7.5						2.8
17		7.5						2.9
18		7.3						2.9
19		7.5						3.0
20		6.6						3.1
21		6.1						3.0
22		6.1						2.9
23		5.7						2.9

Time: 90.0°W

Sweep: 1.0 Mc to 5.7 Mc in three minutes, thirty seconds.

Median values.

Table 11 (Provisional Data)

Trinidad, Brit. West Indies (10.6°N, 61.2°W) June 1946

Time	h'F2	f°F2	h'F1	f°F1	h'F1	f°F1	f _{min}	f _{max}
00		6.7						2.1
01		6.7						2.0
02		6.0						2.0
03		7.0						2.1
04		7.0						2.1
05		7.0						2.1
06		6.7						2.6
07		7.0						2.4
08		7.0						2.4
09		6.7						2.6
10		6.8						2.6
11		7.0						2.6
12		7.0						2.7
13		7.0						2.7
14		7.0						2.7
15		7.0						2.7
16		7.0						2.8
17		7.0						2.8
18		7.0						2.8
19		7.0						2.7
20		7.0						2.7
21		7.0						2.8
22		7.0						2.8
23		7.0						2.0

Time: 60.0°W

Sweep: Manual operation.

Median values.

Table 10 (Provisional Data)

Paul, Hawaii (20.8°N, 156°5'W) June 1946

Time	h'F2	f°F2	h'F1	f°F1	h'F1	f°F1	f _{min}	f _{max}
00		7.4						2.7
01		7.3						2.6
02		7.4						2.8
03		7.1						2.7
04		6.4						2.7
05		6.0						2.6
06		6.9						2.7
07		6.9						2.7
08		7.4						2.1
09		7.8						2.4
10		9.1						2.4
11		9.6						2.4
12		10.2						2.5
13		10.9						2.5
14		11.4						2.6
15		12.2						2.7
16		12.2						2.7
17		12.0						2.8
18		12.0						2.8
19		12.0						2.9
20		9.4						2.8
21		9.9						2.6
22		10.8						2.6
23		8.1						2.7

Time: 150.0°W

Sweep: 2.2 Mc to 16.0 Mc in one minute.

Median values.

Table 12 (Provisional Data)

Christmas Island (1.9°N, 157°23'W) June 1946

Time	h'F2	f°F2	h'F1	f°F1	h'F1	f°F1	f _{min}	f _{max}
00		7.6						2.4
01		8.1						2.4
02		7.8						2.2
03		7.6						2.1
04		6.8						2.1
05		5.5						2.1
06		4.6						2.1
07		6.3						2.2
08		7.8						2.9
09		8.3						2.6
10		9.0						2.4
11		9.0						2.4
12		9.2						2.3
13		9.4						2.3
14		9.6						2.3
15		10.0						2.4
16		9.8						2.4
17		9.6						2.4
18		9.4						2.3
19		9.0						2.4
20		8.4						2.0
21		8.1						2.0
22		8.3						2.4
23		8.2						2.5

Time: 150.0°W

Sweep: 1.5 Mc to 13.0 Mc in one minute, thirty seconds.

Median values.

Table 13 (Provisional Data)

Watheroo, W. Australia (30.5°S, 115.9°E) June 1946

Time	h'F2	f'F2	h'F1	f'F1	h'F0	f'F0	f2-M3000
00		3.5					2.9
01		3.5					2.9
02		3.8					3.0
03		3.7					3.0
04		3.6					3.0
05		3.2					3.1
06		3.2					3.2
07		5.4					3.3
08		7.7					3.4
09		8.6					3.4
10		8.8					3.4
11		9.1					3.3
12		9.3					3.2
13		9.4					3.2
14		9.7					3.2
15		9.8					3.2
16		9.2					3.2
17		8.0					3.2
18		6.2					3.2
19		4.7					3.1
20		3.6					3.2
21		3.2					3.0
22		3.3					2.9
23		3.6					2.8

Time: Local.

Sweep: 15.0 Mc to 0.5 Mc in fifteen minutes.

Median values.

Table 15 (Provisional Data)

Christmas Island (1.9°N, 157.3°W) May 1946

Time	h'F2	f'F2	h'F1	f'F1	h'F0	f'F0	f2-M3000
00	250	9.6					3.1
01	250	9.4					3.0
02	250	9.2					3.0
03	250	9.6					2.6
04	230	7.6					2.3
05	220	6.2					2.1
06	250	5.6					2.1
07	260	6.7					2.9
08	240	8.6					3.7
09	220	9.5					6.2
10	200	10.0					7.0
11	310	9.8					2.5
12	320	10.2					8.4
13	320	10.5					2.5
14	340	10.5					2.4
15	320	10.6					5.1
16	220	10.8					2.0
17	230	10.1					8.6
18	260	9.9					7.5
19	310	9.5					5.2
20	340	9.0					3.0
21	330	8.8					8.1
22	300	9.2					2.5
23	280	9.6					2.6

Time: 150.0°W

Sweep: 1.5 Mc to 13.0 Mc in one minute, thirty seconds.

Median values.

Table 14 (Provisional Data)

Leyte, Philippine Is. (11.0°N, 125.0°E) May 1946

Time	h'F2	f'F2	h'F1	f'F1	h'F0	f'F0	f2-M3000
00		10.3					3.4
01		9.8					3.5
02		8.6					3.2
03		7.4					2.6
04		6.0					2.5
05		4.8					<2.2
06		4.2					3.1
07		7.6					3.0
08		9.7					2.5
09		10.3					4.2
10		10.1					3.1
11		10.2					5.5
12		10.3					3.6
13		10.5					6.5
14		10.8					7.0
15		11.2					4.0
16		11.3					7.5
17		11.8					6.3
18		11.6					3.9
19		11.5					6.4
20		10.2					5.1
21		9.7					4.4
22		9.9					3.3
23		10.0					2.6

Time: 135.0°E

Sweep: Manual operation.

Median values.

Table 16 (Provisional Data)

Johannesburg, South Africa (26.2°S, 28.0°E) May 1946

Time	h'F2	f'F2	h'F1	f'F1	h'F0	f'F0	f2-M3000
00		2.8					2.9
01		3.0					3.0
02		3.0					3.0
03		3.0					3.1
04		2.9					3.2
05		2.9					3.1
06		3.0					3.1
07	220	6.2					3.4
08	220	8.5					2.6
09	230	9.0					100
10	240	10.0					3.7
11	250	10.2					100
12	250	10.7					3.4
13	250	10.5					3.5
14	250	10.7					100
15	250	10.7					3.1
16	230	10.4					3.4
17	220	9.8					100
18	210	8.0					3.1
19	(200)	5.7					3.2
20		4.5					3.5
21		3.5					3.4
22		3.3					3.5
23		2.9					3.0

Time: 30.0°E

Sweep: 2.0 Mc to 15.0 Mc in 8 seconds.

Median values.

Table 17 (Provisional Data)

Watheroo, W. Australia (30.3°S, 115.9°E) May 1946

Time	b'F2	f'F2	b'F1	f'F1	b'F	f'F	f _{min}	f _{max}	f _{2-M5000}
00		3.6							2.8
01		3.6							2.8
02		3.8							2.8
03		3.6							2.9
04		3.5							3.0
05		3.1							3.0
06		3.0							2.9
07		6.2							3.4
08		8.1							3.4
09		9.4							3.2
10		10.5							3.2
11		10.4							3.2
12		10.5							3.1
13		10.6							3.0
14		10.6							3.1
15		10.4							3.1
16		10.1							3.1
17		8.9							3.2
18		6.3							3.2
19		4.7							3.1
20		4.0							3.0
21		3.7							3.0
22		3.6							2.9
23		3.7							2.8

Time: Local
 Sweep: 16.0 Mc to 0.5 Mc in fifteen minutes.
 Median Values.

Table 18 (Provisional Data)

Bakhta Tikhaya, U.S.S.R. (80.3°N, 52.7°E) April 1946

Time	b'F2	f'F2	b'F1	f'F1	b'F	f'F	f _{min}	f _{max}	f _{2-M5000}
00									
01									
02									
03									
04									
05									
06		6.6							
07									
08		6.8							
09									
10		6.8							
11									
12									
13									
14									
15		6.9							
16									
17									
18									
19		6.4							
20									
21		5.9							
22		5.6							
23									

Time: 60.0°E
 Sweep: 1.5 Mc to 9.5 Mc in five to ten minutes. Manual operation.
 Average Values.

Table 19 (Provisional Data)

Burghhead, Scotland (57.0°N, 3.5°W) April 1946

Time	b'F2	f'F2	b'F1	f'F1	b'F	f'F	f _{min}	f _{max}	f _{2-M5000}
00		5.6							
01		5.3							
02		5.1							
03		4.9							
04		4.7							
05		4.7							
06		5.2							
07		5.8							
08		6.2							
09		6.7							
10		6.9							
11		7.5							
12		7.8							
13		7.7							
14		7.8							
15		7.8							
16		7.8							
17		7.0							
18		7.5							
19		7.5							
20		7.2							
21		6.8							
22		6.3							
23		5.8							

Time: 0.0°E
 Sweep: 1.0 Mc to 13.0 Mc. Manual operation.
 Average values.

Table 20 (Provisional Data)

Sverdlovsk, U.S.S.R. (56.7°N, 61.1°E) April 1946

Time	b'F2	f'F2	b'F1	f'F1	b'F	f'F	f _{min}	f _{max}	f _{2-M5000}
00		3.9							
01		4.6							
02		5.3							
03		6.4							
04		7.0							
05		7.9							
06		8.7							
07		9.0							
08		9.1							
09		9.3							
10		8.9							
11		8.2							
12		8.6							
13		8.6							
14		8.0							
15		7.9							
16		7.5							
17		6.7							
18		5.9							
19		5.4							
20		5.1							
21		4.8							
22		4.5							
23		4.1							

Time: 60.0°E
 Sweep: 1.5 Mc to 14.0 Mc in five to thirteen minutes. Manual operation.
 Average values.

Table 21 (Provisional Data)

Tomsak, U.S.S.R. (56.5°N, 84.9°E)

April 1946

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fA	f2-M1000
00		5.1						
01		6.0						
02		6.8						
03		8.0						
04		8.4						
05		9.0						
06		9.0						
07		9.1						
08		9.3						
09		9.0						
10		8.8						
11		8.4						
12		8.2						
13		8.0						
14		7.6						
15		7.2						
16		6.6						
17		5.8						
18		5.4						
19		5.0						
20		4.7						
21		4.4						
22		4.1						
23		4.4						

Time: 90.0°E

Sweep: 1.2 Mc to 10.0 Mc in five to ten minutes. Manual operation.

Average values.

Table 23 (Provisional Data)

Burghead, Scotland (57.7°N, 3.5°W)

March 1946

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fA	f2-M1000
00		4.7						
01		4.6						
02		3.8						
03		3.9						
04		3.8						
05		4.0						
06		4.2						
07		5.0						
08		5.7						
09		6.2						
10		6.3						
11		6.6						
12		7.0						
13		7.4						
14		7.7						
15		7.5						
16		7.2						
17		7.0						
18		6.5						
19		6.8						
20		6.1						
21		5.4						
22		5.0						
23		4.5						

Time: 0.0°E

Sweep: 1.0 Mc to 13.0 Mc. Manual operation.

Average values.

Table 22 (Provisional Data)

Moscow, U.S.S.R. (55.9°N, 37.3°E)

April 1946

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fA	f2-M1000
00		4.0						
01		3.8						
02		3.9						
03		4.8						
04		5.6						
05		6.3						
06		7.1						
07		8.2						
08		8.7						
09		9.0						
10		9.0						
11		8.6						
12		8.4						
13		8.5						
14		8.4						
15		8.2						
16		8.4						
17		8.1						
18		7.3						
19		6.2						
20		5.5						
21		5.3						
22		5.0						
23		4.5						

Time: 30.0°E

Sweep: 1.8 Mc to 10.0 Mc in ten minutes. Manual operation.

Average values.

Table 24 (Provisional Data)

Moscow, U.S.S.R. (55.9°N, 37.3°E)

March 1946

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fA	f2-M1000
00		3.3						
01		3.2						
02		2.9						
03		2.8						
04		4.2						
05		5.8						
06		7.0						
07		8.1						
08		9.2						
09		9.6						
10		10.1						
11		10.0						
12		10.0						
13		9.5						
14		9.2						
15		8.6						
16		8.2						
17		7.0						
18		5.3						
19		4.6						
20		4.3						
21		4.1						
22		3.7						
23		3.5						

Time: 30.0°E

Sweep: 1.8 Mc to 10.0 Mc in ten minutes. Manual operation.

Average values.

Table 25

Washington, D. C. (39.0°N, 77.5°W) June 1946

Time	h ¹ F2	f ^o F2	h'F1	f ^o F1	h'F1	f ^o F1	f ^o M	f ² -M3000
00	290	5.6					3.4	2.7
01	280	5.3					2.9	2.8
02	270	4.9					2.9	2.7
03	275	4.4					2.6	2.8
04	280	4.0						
05	280	4.1	260			120	(1.6)	2.8
06	340	5.0	230	3.8		110	(2.3)	2.8
07	370	5.5	230	4.3		110	(2.8)	2.9
08	370	6.0	210	4.6		110	(3.2)	2.8
09	380	(6.2)	210	4.8		110	3.4	2.7
10	430	6.2	210	5.0		110	(3.5)	2.7
11	390	(6.3)	200	5.0		110	(3.6)	2.8
12	430	6.3	210	5.1		110	(3.8)	2.7
13	420	6.2	210	5.1		110	(3.7)	2.8
14	410	6.4	210	5.0		110	(3.7)	2.7
15	380	6.7	220	5.0		110	(3.6)	2.7
16	370	6.8	220	4.7		110	(3.4)	2.7
17	340	6.7	220	4.5		110	(3.1)	2.9
18	300	6.9	230	3.8		110	(2.5)	2.8
19	260	7.0				120	(1.8)	2.9
20	250	7.0					3.7	2.9
21	270	(6.8)					3.2	2.9
22	280	(6.2)					4.0	(2.8)
23	280	5.9					3.5	2.8

Time: 75.0°W.

Sweep: 0.75 Mc to 11.5 Mc in 3.4 minutes, supplemented by 0.8 Mc to 14.0 Mc in two minutes.

Median values.

Table 27 (Supersedes Table 1, IRPL-F22)

Chiricahua, Canada (58.8°N, 94.2°W) May 1946

Time	h ¹ F2	f ^o F2	h'F1	f ^o F1	h'F1	f ^o F1	f ^o M	f ² -M3000
00	310	4.4					4.6	(2.7)
01	300	4.5					4.2	(2.9)
02	295	4.6					3.6	2.9
03	295	4.2					3.5	3.0
04	310	4.2					3.5	2.9
05	330	4.4					3.5	3.0
06	360	4.5	280	3.6		130	2.8	
07	420	5.0	230	3.8		130	2.9	
08	420	5.5	240	4.4		120	3.0	
09	460	5.2	240	4.6		120	3.2	
10	460	5.4	230	4.6		120	3.5	
11	470	5.6	230	4.8		120	3.5	
12	450	5.8	240	4.7		120	3.5	
13	425	6.0	230	4.8		120	3.4	
14	400	6.2	230	4.7		120	3.4	
15	370	6.2	240	4.5		120	3.4	
16	340	6.3	240	4.4		120	3.3	
17	350	6.0	250	4.1		130	3.0	
18	330	5.8	280	3.6		130	2.8	
19	340	5.0					3.8	2.9
20	330	5.0					4.6	2.8
21	330	5.0					5.5	(2.8)
22	300	4.8					8.4	(2.9)
23	295	4.5					4.7	(2.8)

Time: 90.0°W.

Sweep: 2.0 Mc to 16.0 Mc in one minute.

Median values.

Table 26 (Supersedes Table 2, IRPL-F22)

Fairbanks, Alaska (64.9°N, 147.8°W) May 1946

Time	h ¹ F2	f ^o F2	h'F1	f ^o F1	h'F1	f ^o F1	f ^o M	f ² -M3000
00	295	4.4					5.2	2.7
01	310	4.8					4.5	2.7
02	310	4.8				1.7	5.4	2.6
03	340	5.0				2.0	4.5	2.8
04	380	5.1	280	3.3		2.2	4.0	2.6
05	450	5.0	260	3.8		2.5	4.8	2.5
06	450	5.2	250	3.9		2.8	4.0	2.5
07	440	5.5	240	4.2		2.9	3.5	2.5
08	440	5.6	230	4.2		3.0	3.2	2.5
09	450	5.6	230	4.4		3.2	3.1	2.5
10	430	5.8	236	4.5		3.3	3.2	2.5
11	440	5.0	230	4.6		3.3	3.2	2.6
12	440	5.8	232	4.6		3.3	3.3	2.5
13	435	5.9	236	4.6		3.3	3.0	2.6
14	430	6.0	238	4.5		3.2	3.2	2.6
15	400	6.0	236	4.5		3.1	3.0	2.7
16	395	5.5	248	4.3		3.0	3.2	2.6
17	395	5.5	248	4.1		2.8	3.0	2.7
18	300	5.5	260	3.9		2.5	3.0	2.8
19	275	5.3				2.3	3.5	2.8
20	275	5.4				2.0	3.3	2.9
21	280	4.8				1.8	3.2	2.8
22	290	4.5				1.6	4.0	2.8
23	300	4.0				1.5	4.7	2.8

Time: 150.0°W.

Sweep: 16.0 Mc to 0.5 Mc in fifteen minutes.

Median values.

Table 28 (Supersedes Table 4, IRPL-F22)

Prince Rupert, Canada (54.3°N, 130.3°W) May 1946

Time	h ¹ F2	f ^o F2	h'F1	f ^o F1	h'F1	f ^o F1	f ^o M	f ² -M3000
00	230	4.3					3.7	3.0
01	270	4.2					3.0	2.9
02	270	4.0					2.2	2.8
03	270	3.8					2.6	2.9
04	275	3.7					3.0	2.9
05	290	4.2	235	3.1		1.7	2.2	2.9
06	350	4.7	210	3.6		2.2	2.8	2.9
07	355	5.0	200	4.0		2.5	3.3	2.8
08	390	5.3	190	4.3		2.8	3.5	2.8
09	390	5.5	180	4.4		3.1	3.8	2.8
10	390	5.8	170	4.5		3.1	3.8	2.8
11	390	6.0	170	4.6		3.4	3.9	2.8
12	360	6.3	170	4.8		3.4	3.8	2.8
13	390	5.9	170	4.8		3.4	3.8	2.9
14	390	5.9	180	4.8		3.4	3.8	2.8
15	360	6.0	180	4.7		3.3	3.8	2.8
16	310	6.0	190	4.6		3.0	3.4	3.0
17	310	6.1	190	4.5		3.0	2.8	3.0
18	280	6.1	200	4.2		2.7	2.8	3.2
19	290	6.2	210	3.7		2.3	2.4	3.2
20	280	6.2				1.9	3.1	3.1
21	215	5.6					3.3	3.1
22	210	5.6						
23	280	5.0						

Time: 120.0°W.

Sweep: Manual operation.

Median values.

Table 30 (Supersedes Table 8, INFL-F22)

May 1946

Boston, Massachusetts (42.4°N, 71.2°W)

Time	h'P2	f'P2	h'P1	f'P1	h'E	f'E	f2-M5000
00	300	5.1					2.6
01	300	4.7					2.6
02	300	4.5					2.7
03	288	4.0					2.8
04	295	3.7			189	1.5	2.9
05	295	4.2			138	1.9	3.0
06	275	4.6					3.0
07	305	5.4			4.3		2.9
08	350	6.1	252		4.7		(3.0)
09	(350)	(6.1)	270		4.8		(2.8)
10	350	(6.3)	220		4.7		(2.8)
11	(345)	(6.4)	200				(2.7)
12	352	7.2					2.8
13	368	7.4	250		4.9		(2.7)
14	350	7.2	255		4.9		2.7
15	300	6.6	255				(2.8)
16	310	7.0					2.8
17	275	6.9			138	1.8	2.9
18	255	7.0					2.9
19	255	6.5					2.8
20	275	6.0					2.7
21	295	5.6					2.7
22	300						2.7
23	300						2.7

Time: 75.0°W.
Sweep: 0.85 Mc to 13.75 Mc in one minute.
Median values.

Table 32

May 1946

Tokyo, Japan (35.6°N, 139.6°E)

Time	h'P2	f'P2	h'P1	f'P1	h'E	f'E	f2-M5000
00	300	7.8					2.8
01	290	7.6					3.2
02	280	7.2					3.0
03	260	6.6					3.0
04	280	6.2					2.8
05	275	6.6	260		1.7	2.8	2.9
06	240	7.6	230		2.4	3.8	3.2
07	245	8.1	220		3.0	4.8	3.2
08	255	8.3	215		5.0	5.8	3.2
09	260	8.5	210		5.0	3.6	3.0
10	295	8.8	200		5.6	7.0	3.0
11	300	9.5	200		5.6	3.8	2.9
12	300	10.2	210		5.6	3.9	3.0
13	295	10.3	220		5.4	3.5	3.0
14	290	10.5	220		5.3	3.6	3.0
15	280	10.2	210		5.2	3.2	3.1
16	280	9.8	220		105	2.8	3.1
17	270	9.6	240		5.0	6.0	3.1
18	260	9.3			1.8	5.7	3.1
19	250	9.0				4.6	3.1
20	260	7.8				5.2	2.9
21	290	8.0				5.1	2.8
22	300	7.9				5.4	2.7
23	300	8.0				4.2	2.7

Time: 135.0°W.
Sweep: 0.85 Mc to 13.75 Mc in one minute.
Median values.

Table 23 (Supersedes Table 7, INFL-F22)

May 1946

Ottawa, Canada (45.5°N, 75.6°W)

Time	h'P2	f'P2	h'P1	f'P1	h'E	f'E	f2-M5000
00	340	4.0					2.7
01	330	3.8					2.9
02	340	3.4					2.9
03	330	3.4					3.0
04	340	3.3					2.9
05	300	3.9					2.9
06	275	4.4					2.9
07	300	5.0			140	2.5	2.8
08	285	5.2	260		4.2	3.0	2.8
09	435	5.2	230		4.8	3.2	2.7
10	470	5.3	220		5.0	3.4	2.7
11	440	5.3	220		5.0	3.5	2.7
12	440	5.5	220		5.2	3.5	2.7
13	480	5.6	230		5.2	3.5	2.8
14	450	5.7	240		5.0	3.4	2.6
15	440	6.0	240		4.9	3.3	2.6
16	365	6.2	260		4.5	3.0	2.7
17	370	6.2	260		4.2	2.7	2.7
18	325	6.0	280		130	2.5	2.8
19	280	6.0			140	2.5	2.8
20	290	6.0			130	2.5	2.7
21	300	5.8					2.7
22	300	5.4					2.6
23	330	4.8					2.8

Time: 75.0°W.
Sweep: 1.95 Mc to 13.5 Mc. Manual operation.
Median values.

Table 31 (Supersedes Table 9, INFL-F22)

May 1946

San Francisco, California (37.4°N, 122.2°W)

Time	h'P2	f'P2	h'P1	f'P1	h'E	f'E	f2-M5000
00	300	5.1					2.6
01	290	4.9					2.7
02	280	4.8					2.7
03	280	4.7					2.7
04	280	4.2					2.4
05	260	5.4					2.7
06	380	6.0					2.8
07	360	6.7					2.7
08	340	7.1					2.8
09	370	6.9					2.8
10	380	7.6					2.7
11	375	7.4					2.7
12	365	7.6					2.8
13	380	7.8					2.8
14	345	7.6					2.8
15	340	7.5					2.9
16	300	7.4					3.0
17	280	7.1					3.0
18	290	6.8					2.8
19	240	6.6					3.0
20	270	6.2					2.8
21	260	5.6					2.8
22	300	5.3					2.7
23	300						2.7

Time: 120.0°W.
Sweep: 0.8 Mc to 12.0 Mc in six minutes. Record centered on the hour.
Median values.

Table 33 (Supersedes Table 10, INPL-722)

Baton Rouge, Louisiana (30.5°N, 91.2°W) May 1946

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	f _{min}	f _{max}	F2-M3000
00	315	5.3							2.7
01	310	5.2							2.8
02	310	5.1							2.8
03	300	4.9							2.9
04	300	4.7							2.9
05	300	4.3							2.9
06	290	5.7	250	3.6	130	2.1			2.9
07	300	5.7	250	4.0	130	2.6			3.0
08	370	6.0	240	4.5	120	3.1	3.7		4.0
09	400	6.7	240	4.7	120	3.3			2.6
10	400	7.2	240	4.8	120	3.4			2.7
11	400	8.0	240	4.9	120	3.4			2.6
12	400	8.3	240	4.9	120	3.5			2.7
13	400	8.4	240	5.0	120	3.5			2.7
14	375	9.0	240	4.9	120	3.3			2.8
15	360	8.6	240	4.8	120	3.4			2.8
16	350	8.2	250	4.6	120	3.2			2.8
17	340	8.2	250	4.3	120	2.9			2.8
18	310	8.0	260	3.3	110	2.2	3.8		2.9
19	260	7.8					3.7		3.0
20	290	7.0					3.4		2.9
21	260	5.8					2.8		2.8
22	310	5.5							2.8
23	320	5.3							2.8

Time: 30.0°W.

Sweep: 1.0 Mc to 5.8 Mc in three minutes, thirty seconds.

Median values.

Table 35 (Supersedes Table 12, INPL-722)

Bridgetown, Barbados, West Indies (10.6°N, 61.2°W) May 1946

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	f _{min}	f _{max}	F2-M3000
00	160	5.8							3.0
01	250	9.1							3.0
02	250	8.5							3.0
03	245	7.6							3.1
04	260	6.2							3.0
05	260	5.8							3.0
06	260	6.0							3.0
07	230	7.4							3.1
08	260	8.4							2.9
09	280	9.3							2.8
10	320	10.3							2.7
11	330	11.3							2.8
12	330	11.7							2.8
13	320	12.5							2.9
14	320	12.0							2.9
15	310	12.5							2.8
16	270	11.8							2.8
17	270	10.9							2.8
18	270	10.7							2.8
19	290	10.9							2.8
20	280	10.8							2.9
21	280	10.5							2.8
22	280	10.5							2.8
23	260	10.6							2.9

Time: 60.0°W.

Sweep: Manual operation.

Median values.

Table 34

San Juan, Puerto Rico (18.4°N, 66.1°W) May 1946

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	f _{min}	f _{max}	F2-M3000
00									2.8
01		7.5							2.8
02		7.8							2.9
03		7.0							2.8
04		6.6							2.9
05		6.0							2.9
06		5.4							2.9
07	305	5.6							2.9
08	300	6.8							2.9
09	320	8.0	220	4.0					2.6
10	380	8.6	220	4.6					2.6
11	380	9.6	220	5.0					2.7
12	360	10.2	220	5.1					2.7
13	360	10.9	220	5.2					2.7
14	370	11.2	230	5.1					2.7
15	365	11.0	220	5.0					2.7
16	340	11.1	220	5.0					2.7
17	320	11.0	230	4.6					2.8
18	300	10.4	240	4.0					2.8
19	290	10.1							2.9
20		9.2							2.8
21		8.2							2.8
22		7.9							2.7
23		7.4							2.8

Time: 60.0°W.

Sweep: Record centered on the hour.

Median values.

Table 36

Huanayo, Peru (12.0°S, 75.3°W) May 1946

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	f _{min}	f _{max}	F2-M3000
00	220								3.0
01	230	7.7							3.1
02	230	6.4							3.1
03	240	5.2							3.1
04	250	4.6							3.1
05	260	3.6							3.0
06	280	4.5							2.8
07	250	7.8							3.0
08	230	9.4							2.8
09	230	9.9							2.6
10	300	9.8	220	5.0					2.4
11	305	9.4	210	5.1					2.4
12	320	9.3	200	5.1					2.4
13	320	9.4	200	5.0					2.3
14	290	9.4	200	4.8					2.3
15	220	9.7	220	4.6					2.4
16	230	9.6							2.4
17	260	9.3							2.4
18	310	8.6							2.4
19	310	8.4							2.4
20	295	8.4							2.6
21	230	8.2							2.8
22	230	8.2							3.0
23	230	7.7							3.0

Time: 75.0°W.

Sweep: 16.0 Mc to 0.5 Mc in fifteen minutes.

Median values.

Table 37

Tromsø, Norway (59.7°N, 18.9°E)

April 1946

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	f2-M3000
00	362	(4.8)					3.0
01	333	(4.8)					2.8
02	332	(4.7)					
03	290	4.9					
04	292	5.2					
05	320	5.4					
06	272	3.9	3.9			2.4	
07	290	6.1	4.3			2.7	
08	324	6.4	4.6			2.9	
09	330	6.9	4.6			3.0	
10	323	7.0	4.8			3.1	
11	317	7.3	4.7			3.2	
12	283	7.6	4.6			3.1	
13	290	7.2	4.6			3.0	
14	285	7.0	4.3			3.0	
15	252	6.8	4.2			2.6	
16	264	6.2				2.6	
17	267	6.0				2.6	
18	268	6.0				2.3	
19	280	5.6					3.0
20	342	5.6					3.5
21	340	5.6					3.6
22	357	5.1					3.8
23	372	(4.8)					

Time: 15.0°E.

Sweep: 0.8 Mc to 11.4 Mc in five minutes.

Median values.

Table 38

Tokyo, Japan (35.6°N, 139.6°E)

April 1946

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	f2-M3000
00		7.0					2.9
01		6.8					3.0
02		6.8				2.2	3.1
03		6.2					3.1
04		5.5					3.0
05		5.6					3.1
06		7.5					3.4
07		8.3				2.8	3.5
08		9.2				3.3	3.4
09		10.4				4.1	3.3
10		11.2				5.0	3.2
11		11.4				5.2	3.3
12		12.0				5.4	3.2
13		11.4				5.1	3.2
14		11.1				5.0	3.2
15		10.9				4.8	3.3
16		10.2				4.3	3.4
17		10.0				3.0	3.3
18		9.7					3.4
19		8.8					3.2
20		7.6					3.0
21		7.2					3.0
22		7.3					3.0
23		7.2					2.9

Time: 135.0°E.

Median values.

Table 39

Cairo, Egypt (30.6°N, 31.9°E)

April 1946

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	f2-M3000
00		8.6				2.7	2.8
01		8.6				2.4	
02		7.8				2.7	3.0
03		6.6				2.5	
04		5.9				2.4	2.9
05		5.6					
06		6.8					3.1
07		8.0				2.4	
08		9.0				3.0	3.0
09		10.2				3.2	
10		11.2				3.9	2.8
11		12.1				4.0	
12		13.0				3.8	2.8
13		13.2				3.8	
14		13.0				3.7	2.9
15		12.6				3.4	
16		11.7				3.8	3.0
17		11.1				3.4	
18		10.6				2.9	3.1
19		9.4				2.9	
20		8.4				3.0	2.7
21		8.4				2.6	
22		8.4				2.4	2.7
23		8.4				2.7	

Time: 30.0°E.

Median values.

Table 40 (Supersedes Table 14, IREF-722)

Changchun, China (29.4°N, 106.8°E)

April 1946

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	f2-M3000
00	245	8.3					3.1
01	240	8.6					3.2
02	220	8.0					3.3
03	230	6.4					3.2
04	260	5.2					3.1
05	260	5.2					3.2
06	240	7.0					3.3
07	220	8.6					3.1
08	260	9.5					3.1
09	260	10.7					3.0
10	280	11.6					3.0
11	300	(12.5)D	215				(3.0)D
12	300	(14.0)D	220				(3.0)D
13	280	(14.0)D	235				(3.1)D
14	280	(13.7)D	240				(3.1)D
15	280	(13.7)D	240				(3.3)D
16	260	(13.0)D	220				(3.2)
17	260	(13.0)D	230				(3.2)
18	220	(12.5)D	220				(3.2)
19	220	10.2					3.1
20	220	9.8					3.0
21	240	8.7					3.0
22	260	9.0					3.0
23	240	9.0					3.0

Time: 105.0°E.

Sweep: 3.5 Mc to 12.3 Mc in fifteen minutes. Manual operation.

Median values.

Table 41 (Superster Table 20, IN7L-322)

Christchurch, N. Z. (45.6°S, 172.6°E)

April 1946

April 1946

Time	h/F2	f/F2	h/F1	f/F1	h/F	f/F	F2-M3000
00	275	5.6					2.2
01	276	4.4					2.8
02	280	3.8					2.1
03	275	3.6					2.6
04	270	3.5					2.0
05	255	2.9					2.1
06	250	1.0					2.6
07	250	5.1					2.7
08	245	6.3					2.0
09	250	6.0	230	2.9	2.8	3.0	2.7
10	250	8.8	230	3.1	3.0	3.2	2.9
11	265	9.8	225	3.1	3.1	3.1	3.1
12	260	10.2	228	3.4	3.4	3.1	3.1
13	260	10.8	228	3.4	3.4	3.1	3.1
14	250	10.5	230	3.1	3.1	3.1	3.1
15	250	10.0	230	3.0	3.0	3.1	3.1
16	245	10.0	230	2.7	2.8	3.1	3.1
17	240	9.9	230	2.1	2.7	3.1	3.1
18	230	9.0	230	2.1	2.8	3.1	3.1
19	232	7.6	232	2.1	2.1	3.0	3.0
20	240	6.5	240	2.1	2.1	3.0	3.0
21	250	5.5	250	2.1	2.1	2.9	2.9
22	255	5.3	255	2.1	2.1	2.9	2.9
23	260	5.2	260	2.1	2.1	2.9	2.9

Time: 150.0°E.

Sweep: 1.0 Mc to 13.0 Mc in one minute, fifty-five seconds.

Median values.

Table 43

Oslo, Norway (59.9°N, 11.0°E)

March 1946

Time	h/F2	f/F2	h/F1	f/F1	h/F	f/F	F2-M3000
00							
01		(3.4)					
02							
03							
04							
05		(3.4)					
06		4.2					
07		5.1					
08		5.6					
09		6.0					
10		6.5					
11		(7.6)					
12		(7.6)					
13		(8.0)					
14		(7.7)					
15		8.3					
16		(7.4)					
17		(7.1)					
18		(6.3)					
19		(6.6)					
20		(6.8)					
21		6.6					
22		(5.0)					
23		(4.6)					

Time: 15.0°E.

Sweep: 16.0 Mc to 1.63 Mc in ten minutes.

Median values.

Table 44

Leyte, Philippines Is. (11.4°N)

March 1946

Time	h/F2	f/F2	h/F1	f/F1	h/F	f/F	F2-M3000
00		10.3					
01		10.5					
02		9.4					
03		6.6					
04		5.4					
05		4.6					
06		3.6					
07		6.6					
08		9.8					
09		11.4					
10		11.6					
11		10.7					
12		10.6					
13		10.6					
14		11.4					
15		12.3					
16		12.6					
17		13.0					
18		12.6					
19		11.4					
20		10.2					
21		(10.2)					
22		(11.4)					
23		11.1					

Time: 135.0°E.

Sweep: Manual operation.

Median values.

Table 45

Colombo, Ceylon (8.6°S, 80.0°E)

March 1946

Time	h ¹ /2	h ² /2	h ³ /2	h ⁴ /2	h ⁵ /2	h ⁶ /2	h ⁷ /2	h ⁸ /2	h ⁹ /2	h ¹⁰ /2
00	10.0									3.1
01	9.5									3.2
02	9.4									3.3
03	9.3									3.4
04	9.0									3.5
05	7									3.6
06	3									3.7
07	3.2									3.8
08	3.1									3.9
09	3.0									4.0
10	2.9									4.1
11	2.8									4.2
12	2.7									4.3
13	2.6									4.4
14	2.5									4.5
15	2.4									4.6
16	2.3									4.7
17	2.2									4.8
18	2.1									4.9
19	2.0									5.0
20	1.9									5.1
21	1.8									5.2
22	1.7									5.3
23	1.6									5.4

Time: Local
Sweep: 2.0 Mc to 10.0 Mc in one minute.
Median values.
a Data sheet labeled "Extent of E."

Table 47 (Supersedes Table 23, IHPL-721)

Watheroo, W. Australia (30.5°S, 115.9°E)

March 1946

Time	h ¹ /2	h ² /2	h ³ /2	h ⁴ /2	h ⁵ /2	h ⁶ /2	h ⁷ /2	h ⁸ /2	h ⁹ /2	h ¹⁰ /2
00	270	5.5								2.7
01	262	5.4								2.8
02	260	5.2								2.9
03	260	4.9								3.0
04	266	4.5								3.1
05	280	4.2								3.2
06	280	4.3								3.3
07	240	6.7								3.4
08	236	7.5								3.5
09	270	9.4								3.6
10	306	9.2								3.7
11	305	9.7								3.8
12	305	10.1								3.9
13	300	10.6								4.0
14	300	10.8								4.1
15	286	10.7								4.2
16	286	10.1								4.3
17	240	9.8								4.4
18	240	9.1								4.5
19	230	8.4								4.6
20	235	7.2								4.7
21	240	6.7								4.8
22	236	6.1								4.9
23	280	5.8								5.0

Time: 12.0°E
Sweep: 10.0 Mc to 0.6 Mc in fifteen minutes.
Median values.

Table 46 (Supersedes Table 15, IHPL-721)

Brisbane, Australia (27.5°S, 153.0°E)

March 1946

Time	h ¹ /2	h ² /2	h ³ /2	h ⁴ /2	h ⁵ /2	h ⁶ /2	h ⁷ /2	h ⁸ /2	h ⁹ /2	h ¹⁰ /2
00	280	7.0								2.5
01	260	6.9								2.9
02	260	6.5								3.0
03	250	6.0								3.1
04	270	5.5								3.2
05	280	5.3								3.3
06	240	6.4								3.4
07	230	8.0								3.5
08	220	9.3								3.6
09	212	10.2								3.7
10	205	10.6								3.8
11	200	11.0								3.9
12	200	11.1								4.0
13	200	11.0								4.1
14	200	11.0								4.2
15	200	11.0								4.3
16	200	11.0								4.4
17	200	11.0								4.5
18	200	11.0								4.6
19	200	11.0								4.7
20	200	11.0								4.8
21	200	11.0								4.9
22	200	11.0								5.0
23	200	11.0								5.1

Time: 150.0°E
Sweep: 2.2 Mc to 12.5 Mc in two minutes, thirty seconds.
Median values.

Table 48

Canberra, Australia (35.3°S, 149.0°E)

March 1946

Time	h ¹ /2	h ² /2	h ³ /2	h ⁴ /2	h ⁵ /2	h ⁶ /2	h ⁷ /2	h ⁸ /2	h ⁹ /2	h ¹⁰ /2
00	(280)	(6.2)								(2.8)
01	(270)	(6.5)								(2.9)
02	(270)	(6.5)								(2.9)
03	(270)	(6.5)								(2.9)
04	(270)	(6.5)								(2.9)
05	(270)	(6.5)								(2.9)
06	(270)	(6.5)								(2.9)
07	(270)	(6.5)								(2.9)
08	(270)	(6.5)								(2.9)
09	(270)	(6.5)								(2.9)
10	(270)	(6.5)								(2.9)
11	(270)	(6.5)								(2.9)
12	(270)	(6.5)								(2.9)
13	(270)	(6.5)								(2.9)
14	(270)	(6.5)								(2.9)
15	(270)	(6.5)								(2.9)
16	(270)	(6.5)								(2.9)
17	(270)	(6.5)								(2.9)
18	(270)	(6.5)								(2.9)
19	(270)	(6.5)								(2.9)
20	(270)	(6.5)								(2.9)
21	(270)	(6.5)								(2.9)
22	(270)	(6.5)								(2.9)
23	(270)	(6.5)								(2.9)

Time: 150.0°E
Sweep: 1.6 Mc to 12.5 Mc in two minutes.
*1st through 9th, only.

Table 49 (Supersedes Table 24, IREF-P22)

March 1946

Hobart, Tasmania (42.6°S, 147.4°E)

Time	h ₁ F2	F2F2	h ₁ F1	F1F1	h ₁ F	F ₁ F	F ₂ F	F ₂ F000
00	276	5.4					2.6	2.9
01	276	5.2					2.9	2.9
02	270	4.9					2.9	2.9
03	280	4.4					2.8	3.0
04	280	3.7					3.0	3.0
05	276	3.1					2.8	3.0
06	260	3.8					2.6	3.0
07	250	5.6					2.8	3.0
08	240	6.0	230	4.1	120	2.3	2.9	3.2
09	268	7.0	228	4.5	110	2.8	3.0	3.2
10	290	7.5	210	4.5		3.1	3.6	3.2
11	290	8.4	200	5.0	100	3.5	3.6	3.1
12	300	8.6	200	5.0	100	3.6	3.6	3.0
13	300	8.7	212	5.0	100	3.6	3.6	3.0
14	300	9.1	226	4.8	100	3.5	3.6	3.0
15	276	9.0	225	4.7	100	3.4	3.4	3.0
16	258	9.0	228	4.5	100	3.0	3.4	3.0
17	250	8.5			116	2.7	2.9	3.0
18	250	8.5				2.0	2.8	3.0
19	242	8.4					2.8	3.0
20	250	7.5					3.2	2.9
21	260	8.6					2.9	2.8
22	260	6.0					2.5	2.8
23	272	5.8					2.6	2.8

Time: 150.0°E

Sweep: 1.0 Mc to 13.0 Mc in one minute, 55 seconds.

Median values.

Table 51 (Supersedes Table 18, IREF-P21)

Barotonga Island (21.5°S, 159.8°W)

February 1946

Time	h ₁ F2	F2F2	h ₁ F1	F1F1	h ₁ F	F ₁ F	F ₂ F	F ₂ F000
00		9.5						
01		8.8						
02		7.1						
03		6.7						
04		6.4						
05		6.2						
06		6.2						
07		7.8						
08		9.5						
09		9.8						
10		10.6						
11		11.6						
12		12.6						
13		13.4						
14		13.5						
15		13.0						
16		11.8						
17		11.0						
18		9.8						
19		9.5						
20		9.2						
21		9.6						
22		9.8						
23		9.4						

Time: 157.5°W

Sweep: 2.0 Mc to 16.0 Mc. Manual operation.

Median values.

Table 50

Fanning Is. (51.7°S, 57.7°W)

March 1946

Time	h ₁ F2	F2F2	h ₁ F1	F1F1	h ₁ F	F ₁ F	F ₂ F	F ₂ F000
00		6.3						2.6
01		5.9						2.6
02		5.9						2.6
03		5.4						2.7
04		5.2						3.0
05		5.1						3.0
06		6.4						3.2
07		7.8						3.0
08		8.9						3.0
09		10.0						3.0
10		10.4						3.0
11		11.1						3.0
12		11.4						3.0
13		11.1						3.2
14		10.6						3.2
15		9.9						3.2
16		9.2						3.2
17		8.6						3.2
18		8.8						3.2
19		8.0						3.0
20		6.9						3.0
21		6.4						2.5
22		6.4						2.8
23		6.4						2.8

Time: 50.0 W.

Median values.

*Data sheet labeled "Extent of E".

Table 52

Fanning Is. (51.7°S, 57.7°W)

February 1946

Time	h ₁ F2	F2F2	h ₁ F1	F1F1	h ₁ F	F ₁ F	F ₂ F	F ₂ F000
00		7.0						3.2
01		6.9						2.6
02		7.0						2.4
03		6.6						2.8
04		6.5						2.8
05		6.5						
06		7.1						3.0
07		8.0						2.9
08		8.5						2.9
09		9.4						2.9
10		9.9						3.0
11		10.0						3.0
12		9.0						3.1
13		9.5						3.1
14		8.2						3.1
15		8.0						3.1
16		8.0						3.1
17		7.8						3.1
18		7.5						3.1
19		7.2						3.1
20		7.1						3.1
21		7.4						3.1
22		7.0						3.1
23		7.0						3.1

Time: 50.0°W

Median values.

*Data sheet labeled "Extent of E".

Table 53 (Supersedes Table 24, IRPL-F20)

Barotonga I. (21.3°S, 159.8°W) January 1946

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	F2-M1000
00		8.2					
01		7.2					
02		5.9					
03		5.5					
04		5.8					
05		5.0					
06		5.2					
07		6.5					
08		7.2					
09		8.4					
10		9.9					
11		10.4					
12		11.0					
13		11.9					
14		13.0					
15		12.7					
16		11.0					
17		9.9					
18		8.1					
19		7.4					
20		8.0					
21		8.2					
22		8.2					
23		8.2					

Time: 157.5°W.

Sweep: 2.0 Mc to 16.0 Mc. Manual operation.

Median values.

Table 55 (Supersedes Table 15, IRPL-F18)

Barotonga I. (21.3°S, 159.8°W) December 1945

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	F2-M1000
00		9.1					
01		8.6					
02		7.0					
03		6.8					
04		6.4					
05		6.2					
06		6.7					
07		7.9					
08		9.0					
09		9.5					
10		10.7					
11		11.1					
12		12.0					
13		12.0					
14		12.3					
15		12.2					
16		11.7					
17		10.5					
18		9.5					
19		8.9					
20		9.1					
21		9.2					
22		9.2					
23		9.2					

Time: 157.5°W.

Sweep: 2.0 Mc to 16.0 Mc. Manual operation.

Median values.

Table 54 (Supplements Table 52, IRPL-F21)

Slough, England (51.5°N, 0.6°W) December 1945

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	F2-M1000
00	382						2.6
01	372						2.6
02	366						2.7
03	349						2.7
04	334						2.8
05	319						3.9
06	294						3.0
07	319						2.9
08	250						3.3
09	241						3.3
10	242						3.4
11	237						3.5
12	244						3.4
13	247						3.4
14	251						3.4
15	239						3.5
16	247						3.4
17	272						3.4
18	271						3.2
19	282						3.0
20	308						3.0
21	340						2.8
22	378						2.6
23	374						2.6

Time: 0.0°.

Sweep: 0.5 Mc to 16.0 Mc in four minutes.

Median values.

Table 56 (Supplements Table 63, IRPL-F20)

Slough, England (51.5°N, 0.6°W) November 1945

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	F2-M1000
00	370						2.7
01	366					2.4	2.7
02	364					2.5	2.7
03	367						2.7
04	350						2.8
05	320						2.9
06	320						3.1
07	287						2.9
08	246						3.4
09	240						3.5
10	249						3.4
11	253						3.4
12	252						3.4
13	257						3.4
14	258						3.4
15	254						3.4
16	254						3.4
17	272					1.7	3.2
18	271					2.0	3.2
19	276						3.0
20	304						2.7
21	362						2.7
22	368						2.7
23	368						2.7

Time: 0.0°.

Sweep: 0.5 Mc to 16.0 Mc in four minutes.

Median values.

Table 57 (Supersedes Table 18, IRPL-F17)

Barotonga I. (21.3°S, 154.8°W) November 1945

Time	hF2	f°F2	h'F1	f°F1	h'F	f°F	FEs	P2-M3000
00		10.6						
01		9.8						
02		7.8						
03		7.4						
04		7.0						
05		7.4						
06		8.0						
07		9.4						
08		9.8						
09		10.9						
10		11.6						
11		12.2						
12		12.8						
13		13.0						
14		13.2						
15		12.8						
16		12.0						
17		11.4						
18		11.2						
19		10.8						
20		10.2						
21		10.5						
22		10.5						
23		10.6						

Time: 157.50W.

Sweep: 2.0 Mc to 16.0 Mc. Manual operation.

Median values.

Table 59 (Supersedes Table 17, IRPL-F16)

Barotonga I. (21.3°S, 154.8°W) October 1945

Time	hF2	f°F2	h'F1	f°F1	h'F	f°F	FEs	P2-M3000
00		9.2						3.1
01		8.4						3.2
02		6.4						3.1
03		5.7						2.8
04		5.6						2.9
05		5.5						3.0
06		6.8						3.1
07		8.8						3.2
08		3.6						3.3
09		10.2						3.2
10		11.1						3.1
11		11.8						3.0
12		12.2						3.0
13		11.5						3.0
14		11.5						3.0
15		11.6						2.9
16		11.3						3.0
17		11.2						3.1
18		11.4						3.1
19		10.5						3.0
20		10.0						2.8
21		9.2						2.9
22		9.0						(2.9)
23		9.0						3.0

Time: 157.50W.

Sweep: 2.0 Mc to 16.0 Mc. Manual operation.

Median values.

Table 58 (Supersedes Table 22, IRPL-F18)

Kermadec Is. (29.2°S, 177.9°W) November 1945

Time	hF2	f°F2	h'F1	f°F1	h'F	f°F	FEs	P2-M3000
00		260						
01		275						
02		300						
03		300						
04		310						
05		315						
06		320						
07		325						
08		310						
09		300						
10		270						
11		270						
12		285						
13		282						
14		282						
15		282						
16		282						
17		282						
18		282						
19		282						
20		282						
21		282						
22		282						
23		282						

Time: 180.00E.

Sweep: 1.8 Mc to 12.0 Mc. Manual operation.

Median values.

Table 60 (Supersedes Table 20, IRPL-F15)

Kermadec Is. (29.2°S, 177.9°W) November 1945

Time	hF2	f°F2	h'F1	f°F1	h'F	f°F	FEs	P2-M3000
00		275						
01		265						
02		250						
03		270						
04		280						
05		275						
06		250						
07		252						
08		275						
09		290						
10		300						
11		315						
12		315						
13		315						
14		315						
15		300						
16		295						
17		275						
18		258						
19		250						
20		282						
21		282						
22		282						
23		282						

Time: 180.00E.

Sweep: 1.8 Mc to 12.0 Mc. Manual operation.

Median values.

Table 61 (Supersedes Table 20, IRII-F15)

Kermadec Is. (29.2°S, 177.9°W) September 1945

Time	h'P2	f'P2	h'F1	f'F1	h'E	f'E	f'G	P2-M5000
00	275	4.4						2.9
01	265	4.2						3.0
02	250	3.8						3.1
03	265	3.3						3.0
04	280	3.0						2.8
05	300	2.9						3.1
06	270	3.9						3.1
07	260	3.8						3.2
08	275	6.5	250	4.0	125	2.1		3.3
09	255	6.6	250	4.3	125	2.6		3.2
10	310	6.7	235	4.5	120	3.0		3.2
11	310	6.9	235	4.6	120	3.2		3.1
12	320	7.2	225	4.5	120	3.3		3.1
13	310	7.5	220	4.4	120	3.2		3.1
14	300	7.0	238	4.4	120	3.2		3.2
15	298	6.6	250	4.2	120	3.0		3.1
16	275	6.2	243	3.7	120	2.6		3.1
17	265	5.9						3.2
18	258	5.6						3.0
19	270	5.2					2.6	3.0
20	275	5.1					2.2	2.9
21	282	4.9						2.9
22	280	4.7					2.2	2.9
23	280	4.8						2.9

Time: 180.0°E.

Sweep: 1.8 Mc to 12.0 Mc. Manual operation.

Median values.

Table 63 (Supersedes Table 16, IRII-F13)

Kermadec Is. (29.2°S, 177.9°W) July 1945

Time	h'P2	f'P2	h'F1	f'F1	h'E	f'E	f'G	P2-M5000
00	295	3.8						2.9
01	290	3.7						2.9
02	275	3.7						2.9
03	278	3.9						3.0
04	250	3.9					2.5	3.1
05	260	3.6					2.6	3.0
06	250	3.3					2.7	3.1
07	235	4.8						3.4
08	250	5.6						3.4
09	265	5.8	250	3.8	125	2.2		3.4
10	270	6.6	250	4.2	115	3.0		3.4
11	270	6.3	230	4.3	115	3.0		3.5
12	275	6.2	228	4.4	115	3.1		3.4
13	285	6.4	225	4.3	115	3.1		3.3
14	270	6.2	245	4.2	115	3.0		3.3
15	265	6.2	235	3.8	115	2.7		3.4
16	250	5.8	250	3.4	115	2.4		3.4
17	240	5.6						3.4
18	225	4.4						3.4
19	235	3.6					3.4	3.2
20	265	3.6					2.8	3.0
21	280	3.6					2.2	2.9
22	280	3.6					2.0	2.9
23	275	3.6						2.9

Time: 180.0°E.

Sweep: 1.8 Mc to 12.0 Mc. Manual operation.

Median values.

Table 62 (Supersedes Table 24, IRII-F1)

Kermadec Is. (29.2°S, 177.9°W) August 1945

Time	h'P2	f'P2	h'F1	f'F1	h'E	f'E	f'G	P2-M5000
00	285	3.9						3.0
01	275	3.7						3.0
02	270	3.7						3.0
03	265	3.8						3.0
04	260	3.2						3.1
05	280	3.0						3.0
06	280	3.0						3.0
07	250	5.2	250	3.7	125	2.4		3.4
08	265	6.0	250	4.0	120	2.8		3.3
09	275	6.4	250	4.4	120	3.1		3.4
10	290	6.3	235	4.4	120	3.1		3.3
11	285	6.4	225	4.4	120	3.2		3.3
12	285	6.2	225	4.4	120	3.2		3.4
13	300	6.5	225	4.4	120	3.2		3.3
14	295	6.4	235	4.2	120	3.1		3.3
15	285	6.4	235	4.0	120	2.9		3.3
16	270	5.8	242	3.4	120	2.5		3.3
17	250	5.5						3.2
18	240	4.8						3.1
19	250	4.2					1.9	2.9
20	260	3.8						2.9
21	285	3.6						2.9
22	290	3.7					2.1	2.9
23	295	3.7						2.9

Time: 180.0°E.

Sweep: 1.8 Mc to 12.0 Mc. Manual operation.

Median values.

Table 64 (Supersedes Table 23, IRII-F12)

Kermadec Island (29.2°S, 177.9°W) June 1945

Time	h'P2	f'P2	h'F1	f'F1	h'E	f'E	f'G	P2-M5000
00	290	3.8						2.9
01	288	3.8						2.9
02	278	3.9						3.1
03	272	4.0						3.2
04	250	4.0						3.1
05	250	3.6						3.1
06	250	3.4						3.1
07	235	5.0						3.4
08	245	6.2						3.5
09	255	6.3	250	3.9	125	2.2		3.4
10	270	6.6	242	4.2	115	2.9		3.4
11	270	6.6	235	4.3	115	3.1		3.4
12	275	6.5	225	4.4	115	3.2		3.4
13	270	6.5	225	4.3	115	3.1		3.4
14	268	6.4	225	4.1	115	3.0		3.4
15	255	6.5	240	3.8	115	2.8		3.3
16	245	6.0			120	2.2		3.5
17	235	5.6						3.4
18	225	4.5						3.3
19	240	3.9						3.2
20	250	3.6						3.1
21	272	3.6						3.1
22	275	3.6						3.0
23	275	3.7						3.0

Time: 180.0°E.

Sweep: 1.8 Mc to 12.0 Mc. Manual operation.

Median values.

Washington, D.C.

Ionosphere Station

(Location)

National Bureau of Standards

(Institution)

TABLE 65
IONOSPHERE DATA - IHourly values of $h'F_2$ in μ for June 1966
(Month)Records measured by: A. K. B.
J. L. S.

TIME: 75° W MERIDIAN

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	300	300	280	260	240	240	300	270	260	310	280	330	360	350	320	320	310	300	260	250	250	260	250	300
2	270	260	260	290	270	240	250	330	310	270	300	300	350	370	340	310	310	300	270	250	230	250	240	250
3	260	270	250	250	260	250	250	290	330	280	350	330	350	380	350	320	300	300	280	260	260	290	280	260
4	270	280	270	300	290	290	300	300	320	370	370	390	380	400	350	320	310	310	280	250	250	260	260	260
5	250	260	260	260	260	250	280	290	370	350	350	350	370	340	350	330	330	330	300	260	250	260	240	220
6	250	280	280	250	260	270	310	350	510	410	450	380	430	410	420	350	350	350	280	260	250	280	290	280
7	300	280	270	290	310	420	350	400	430	460	530	410	480	420	500	470	410	360	310	260	240	250	310	280
8	290	290	270	280	320	260	310	720	G	530	630	650	670	570	470	500	390	400	330	260	250	260	280	310
9	310	320	240	300	320	330	G	G	G	G	G	G	G	630	590	460	450	380	320	280	250	270	250	280
10	280	270	280	300	260	270	260	300	320	390	340	340	370	300	350	350	330	320	300	250	240	250	280	290
11	300	290	270	270	290	330	400	350	350	370	390	350	380	390	410	350	380	340	290	280	280	280	C	C
12	C	C	C	C	C	C	C	C	C	C	410	380	390	420	370	380	360	350	350	260	260	250	300	270
13	330	300	270	280	290	270	400	490	480	480	630	G	G	680	550	520	520	400	320	280	250	250	290	290
14	290	290	280	270	280	270	360	300	310	350	350	370	380	370	380	340	330	300	280	260	270	280	260	270
15	270	280	270	280	280	300	580	370	320	340	310	400	430	430	410	350	350	320	280	250	270	270	270	270
16	290	300	290	260	290	300	430	350	450	570	500	390	310	440	360	450	410	360	310	270	250	290	280	330
17	320	260	300	250	290	280	G	540	620	540	480	G	G	G	540	520	450	430	360	280	260	280	330	270
18	290	320	270	270	280	300	380	400	370	330	350	370	480	430	440	380	370	340	300	250	240	240	290	300
19	310	300	270	290	300	C	C	C	C	C	460	480	550	430	410	450	340	C	C	C	C	C	C	270
20	290	280	260	260	270	270	270	400	440	360	C	C	C	C	C	C	C	C	C	250	230	270	270	290
21	280	290	280	C	C	C	C	C	C	C	480	440	440	440	470	440	380	370	370	270	240	270	290	290
22	280	260	250	250	280	280	400	410	430	420	490	C	C	C	C	490	390	320	320	280	280	270	A	A
23	310	280	260	280	320	280	310	350	340	C	C	C	C	C	390	340	330	320	270	260	260	280	280	280
24	300	270	250	220	250	250	260	260	310	300	290	330	370	350	370	350	360	340	300	250	230	260	260	260
25	290	300	290	320	250	300	270	310	300	410	430	420	420	420	440	380	350	350	310	270	250	250	270	270
26	260	290	250	230	270	280	350	320	390	360	320	330	350	380	400	400	380	350	300	290	250	270	280	280
27	270	250	250	270	300	330	340	G	360	380	500	430	430	430	580	540	430	400	340	310	270	270	280	280
28	270	270	280	300	300	270	300	300	500	550	450	410	510	G	500	410	370	320	340	290	260	270	280	280
29	300	300	310	270	270	290	340	250	370	430	450	500	450	500	470	390	360	310	260	300	270	280	280	300
30	300	310	310	320	320	280	370	350	450	A	A	A	C	440	400	400	400	330	310	A	A	270	280	290
31																								
Median	290	280	270	275	280	280	340	350	370	380	430	390	430	420	410	380	370	340	300	260	250	270	280	280
Count	29	29	29	28	28	27	27	27	27	25	27	26	26	27	28	29	29	28	28	28	28	28	28	28

TABLE 66 IONOSPHERE DATA-2

Washington, D.C.

Ionosphere station

(Location)

National Bureau of Standards

(Institution)

Hourly values of f^oF_2 is $\left(\begin{smallmatrix} \text{No} \\ \text{for} \end{smallmatrix} \right)$ June 1946
(Month)

Records measured by: A.K.B.
J.L.S.

TIME: 75°W MERIDIAN

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
1	5.5	5.1	5.0	4.8	4.5	5.0	(5.7) ^F	6.8	7.2	8.0	(7.0)	7.0	7.6	8.0	8.2	8.2	8.2	[8.2] ^C	8.2	8.2	8.2	8.2	(7.2)	(6.2)	6.2
2	6.3	5.7	4.9	4.5	4.2	4.8	5.7	6.6	7.2	7.0	7.3	(7.1)	7.1	7.3	8.0	8.0	7.8	8.2	8.2	8.2	7.6	(7.4)	6.8	6.0	
3	5.8	5.7	5.5	5.2	4.9	4.9	5.7	6.5	7.0	7.4	7.4	7.8	7.1	7.2	[7.2] ^C	7.8	(8.0) ^J	8.0	7.8	8.3	7.8	(7.0)	[6.7] ^C	(6.2)	
4	5.6	5.3	5.3	4.7	4.5	4.8	5.7	(6.0) ^J	6.4 ^M	6.2	(6.6)	6.7	6.9	6.8	6.9	7.0	[7.1] ^C	7.2	7.1	(7.2)	[6.7] ^C	(6.2)	(6.3) ^J	5.9	
5	5.3	5.2	4.8	4.5	4.3	4.7	5.4	6.0	5.9	6.4	6.6	(6.9) ^J	7.2	7.6	7.6	7.6	7.9	7.9	8.6	9.1	8.8	8.4	8.0	(6.8) ^J	
6	(6.3) ^J	5.7	5.3	5.0	4.5	4.3	4.7	[5.2] ^A	5.3	(6.0)	(5.9)	(6.2) ^J	[6.2] ^C	[6.2] ^C	6.3	6.5	6.2	6.4	6.6	6.3	6.5	(6.1) ^J	6.0	5.5	
7	5.5	5.6	4.7	4.4	3.6	3.6	4.6	4.8	5.0	(5.3)	5.2	(5.7) ^K	[3.7] ^A	5.6	5.3	(5.2) ^K	5.9	6.0	6.7	6.7	5.8	5.2	5.2	5.1	
8	5.2	4.7	4.5	3.6	3.5	3.6	4.6	4.6	4.2	5.0	5.0	4.8	4.9	(5.2) ^K	5.2	(5.1) ^K	5.5	5.7	6.0	6.2	5.8	(5.5) ^K	(4.8) ^K	4.3	
9	4.3	4.8	(3.8) ^K	(3.1) ^K	2.7	3.2	3.2	3.8	4.1	4.3	4.6	(4.5) ^K	4.7	(5.0) ^K	(5.0) ^K	(5.0) ^K	5.1	5.2	5.3	5.6	5.3	5.8	5.7	5.1	
10	4.9	4.3	3.7	3.6	3.0	4.3	5.3	6.0	6.4	6.5	6.6	6.7	6.4	6.3	7.0	6.7	6.6	6.3	6.6	6.9	[7.0] ^C	6.4	(5.7) ^K	5.5	
11	5.3	4.9	4.8	4.4	4.2	4.2	4.6	5.3	(6.0)	(5.7)	6.2	(6.2)	(5.8)	[5.9] ^C	(6.2)	6.1	6.0	6.4	6.8	7.0	6.9	6.2	6.2	6.2	
12	4.4	4.4	4.0	3.9	3.3	3.6	(4.2) ^K	(4.5) ^K	4.8	4.9	(4.8) ^K	4.8	(6.0)	6.2	6.4	6.2	[6.1] ^A	5.9	(6.2)	(6.3) ^J	6.9	[5.8] ^K	(5.8) ^K	5.0	
13	4.5	4.2	3.8	3.4	2.8	3.9	5.3	6.5	6.2	[6.7] ^C	6.9	6.6	7.0	7.1	7.2	7.6	5.1	5.5	5.8	5.9	(5.9) ^K	(5.1) ^K	(4.8) ^K	4.8	
14	(5.9)	(6.0)	5.0	4.5	4.0	(4.0)	4.2	(5.7)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	
15	5.7	5.8	5.2	4.3	3.9	3.9	4.6	5.7	5.3	(5.3) ^K	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	
16	5.7	(5.3) ^K	5.2	(4.7) ^K	4.1	3.9	4.5	4.6	4.9	(5.3) ^K	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	
17	5.1	4.9	4.7	(4.2)	3.7	4.1	5.1	5.5	(6.0)	6.0	6.0	(5.7)	[6.2] ^C	7.0	7.4	7.9	8.0	8.3	8.0	8.9	8.4	7.2	7.0	(5.4) ^K	
18	6.4	(5.3) ^K	4.1	3.8	2.2	3.8	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	
19	[5.5] ^C	[5.1] ^C	[4.8] ^C	[4.0] ^C	[3.3] ^C	[3.8] ^C	[4.6] ^C	5.2	(5.5)	(6.3)	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	
20	(6.0)	5.3	5.7	5.1	4.4	3.9	4.3	5.0	5.3	5.8	6.0	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	
21	6.4	5.8	5.1	4.4	3.9	4.3	5.0	5.3	5.8	6.0	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	
22	(6.0)	5.7	5.3	4.3	4.3	4.3	5.4	5.7	6.2	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	
23	(7.1) ^J	6.9	6.7	5.9	5.4	5.1	5.7	6.7	7.2	(7.7)	(7.9)	(8.3)	7.7	7.6	7.5	7.8	7.7	7.8	8.2	8.7	8.0	7.8	(7.1)	6.9	
24	(6.4) ^J	6.3	5.9	5.7	5.0	5.0	5.3	5.5	6.6	6.4	[6.4] ^A	6.5	6.7	6.7	6.7	7.0	[6.9] ^C	(6.5)	6.9	7.0	(7.7)	7.6	7.5	7.4	
25	(7.2)	6.5	(5.7) ^J	5.4	4.7	4.3	5.3	5.9	(6.0) ^J	(6.5) ^J	7.0	[6.8] ^K	7.6	6.9	(7.1) ^J	6.8	(6.6)	6.6	7.0	(7.2)	(7.5)	(7.2)	6.9	6.9	
26	6.9	6.6	5.7	5.1	4.1	(4.1)	(4.9)	5.4	(5.8)	(6.0) ^J	6.1	(6.1)	[5.9] ^B	5.7	5.7	5.7	6.4	6.3	6.6	6.9	7.6	(7.6)	(7.7)	(6.2)	
27	(5.4)	(4.9)	(4.3) ^F	(4.0) ^F	(3.6) ^J	4.1	5.2	5.3	5.3	(5.4)	[5.7] ^C	(6.2)	(5.7)	<5.3 ^G	(6.1) ^J	(6.4) ^J	6.8	6.8	6.9	6.5	(6.4) ^K	6.7	6.2	(5.7)	
28	5.3	4.7	4.2	4.0	2.8	3.8	4.9	(5.5)	6.3	(6.5)	(6.3)	(6.3)	6.4	(6.1)	(7.0)	7.9	9.2	(9.5) ^K	(7.6) ^K	(6.2) ^K	(5.4) ^K	(5.7) ^K	(4.8) ^K	(3.8) ^K	
29	(4.3) ^K	(3.7) ^K	3.8	(2.4) ^K	2.3	3.7	4.7	5.1	5.3	A	A	A	C	(6.3)	(6.4)	6.4	6.4	6.4	7.0	7.2	7.1	6.8	6.1	5.9	
30																									
Median	5.6	5.3	4.9	4.4	4.0	4.1	5.0	5.5	6.0	(6.2)	6.2	(6.3)	6.3	6.2	6.4	6.7	6.8	6.7	6.9	7.0	7.0	(6.8)	(6.2)	5.9	
Count	29	29	29	28	28	27	27	27	26	26	26	26	26	27	28	29	26	25	25	24	24	24	24	24	

Washington, D.C.

Ionosphere Station

TABLE 67
IONOSPHERE DATA - 3

National Bureau Of Standards

 Max Hourly Values of f^oF_2 in $^{\circ}\text{MHz}$ for June 1946
 (Institution) (Month)
Records measured by: A. K. B.
J. L. S.

TIME: 75°W MERIDIAN

Day	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130	1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330
1	5.2	5.1	4.9	5.0	4.3	5.2	6.6	7.6	7.6	7.8	7.0	7.3	7.8	8.0	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
2	5.8	5.3	4.8	4.4	4.4	5.2	5.6	6.6	7.0	7.1	7.0	7.0	7.4	7.5	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
3	5.6	5.6	5.3	5.0	4.8	5.4	6.2	6.5	7.5	7.1	7.6	7.2	7.2	7.0	7.4	7.9	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
4	5.6	5.3	5.0	4.7	4.5	5.3	5.9	6.2	6.5	6.2	6.4	7.0	6.9	6.8	7.0	7.1	7.2	7.3	7.4	7.0	6.5	6.3	6.0	5.5
5	5.3	5.0	4.6	4.4	4.4	5.2	5.8	6.0	6.2	6.6	6.9	7.0	7.6	7.6	7.6	7.7	8.1	8.3	8.3	8.8	8.7	8.5	7.6	6.0
6	5.7	5.2	5.2	5.2	4.2	4.7	5.3	5.0	5.2	5.8	6.5	5.8	6.0	6.3	6.6	6.4	6.3	6.5	6.6	6.6	6.2	6.0	5.6	5.6
7	5.5	5.0	4.8	4.3	3.3	3.8	4.3	5.0	5.1	5.3	5.4	5.3	5.9	5.3	5.3	5.4	6.1	6.2	6.2	6.2	5.7	5.2	5.5	5.2
8	5.1	4.5	4.0	3.2	3.5	4.3	4.5	4.8	4.8	4.7	4.5	5.1	5.3	5.3	5.1	5.4	5.3	5.7	6.3	6.1	5.9	5.4	4.6	4.6
9	4.2	4.7	4.2	3.8	3.8	3.4	3.7	4.2	4.3	4.3	4.5	4.6	4.6	5.1	5.1	5.3	5.3	5.4	5.6	5.8	5.8	5.8	5.3	5.3
10	4.6	4.2	3.6	3.3	3.3	4.8	5.7	6.4	6.6	6.9	7.0	6.5	6.6	6.7	6.6	6.7	6.4	6.4	6.8	7.2	6.8	5.8	5.5	5.4
11	4.9	4.9	4.6	4.3	4.0	4.4	5.0	5.2	5.8	5.6	6.3	6.0	6.0	5.8	6.1	5.9	6.1	6.7	6.9	7.0	6.8	5.8	5.8	5.4
12	4.4	4.3	4.2	3.6	3.1	3.9	4.2	4.5	4.9	5.3	6.2	5.9	5.6	6.4	6.7	6.7	6.7	5.6	6.4	6.4	6.4	5.8	5.8	5.2
13	4.4	4.0	3.8	3.0	3.4	4.7	6.4	6.1	6.5	7.6	6.7	6.5	7.0	6.4	5.1	5.0	5.3	5.8	5.8	5.8	5.3	4.8	4.8	4.5
14	5.7	5.6	4.7	4.1	4.0	4.5	4.8	7.2	7.2	7.2	7.2	6.5	7.0	6.4	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
15	5.8	5.5	5.1	4.0	3.7	4.3	5.3	5.8	5.6	5.4	5.0	4.9	5.0	5.3	5.3	5.3	5.3	5.6	6.1	6.1	6.1	5.8	5.8	5.4
16	5.8	4.7	4.4	3.9	3.6	4.7	5.2	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
17	5.8	5.1	4.7	4.1	3.8	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
18	5.4	5.1	4.8	4.2	3.8	4.7	5.2	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
19	5.4	5.1	4.8	4.2	3.8	4.7	5.2	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
20	5.3	4.9	4.5	4.1	3.7	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
21	5.7	5.3	4.9	4.5	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
22	6.0	5.5	4.9	4.5	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
23	5.8	5.7	5.1	4.2	4.0	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
24	7.1	6.9	6.3	5.6	5.0	5.3	6.0	6.7	7.2	8.0	8.6	7.9	7.7	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
25	6.3	5.9	5.7	5.6	5.6	5.6	5.4	6.0	6.3	6.4	6.5	6.6	6.8	6.8	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
26	6.6	6.0	5.8	5.0	4.1	4.7	5.8	6.0	6.2	7.2	6.7	7.0	7.1	6.8	7.0	6.6	6.8	7.0	7.0	7.0	7.0	7.0	7.0	7.0
27	6.9	5.8	5.6	4.5	3.8	4.4	5.6	5.7	5.8	5.9	6.1	6.1	5.8	5.5	5.7	6.1	6.7	7.0	7.0	7.0	7.0	7.0	7.0	7.0
28	5.2	5.1	4.2	3.7	3.5	4.7	5.3	5.4	5.3	5.5	6.0	5.8	5.5	5.2	6.1	6.4	6.7	7.0	7.0	7.0	7.0	7.0	7.0	7.0
29	4.9	4.5	4.1	3.5	3.2	4.1	5.6	5.9	6.4	6.5	6.5	6.5	6.2	6.4	7.8	8.1	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
30	4.0	3.8	3.5	3.2	2.9	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
31																								
Median	5.5	5.1	4.8	4.1	3.8	4.7	5.3	5.8	6.1	6.0	6.3	6.3	6.2	6.4	6.7	6.6	6.8	6.9	6.8	6.8	6.8	6.8	6.8	6.8
Count	29	29	28	28	27	27	27	27	27	26	25	26	27	28	28	26	26	25	25	24	24	24	24	24

TABLE 68
IONOSPHERE DATA - 4

Washington, D.C. Ionosphere Station

National Bureau of Standards

Hourly values of f^oF_1 in μ for June 1946
(Month)

Records measured by: A.K.B.
J.L.S.

TIME: 75° W MERIDIAN

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1							(230)	230	230	210	210	200	180	240 ^M	210	240	210	230	220					
2							230	230	A	A	A	200	190	200	230	230	210	210	240					
3							240	[230] ^M	[220] ^M	220	190	190 ^M	200 ^M	210 ^M	210 ^M	200 ^M	230	230	210	240				
4							220	240	(220)	210	180 ^M	200 ^M	210	210	220	200 ^M	220	[220] ^M	220	230				
5							230	220	200	210	220	[200] ^M	190 ^M	210	210	210	210	210	230	240				
6							A	A	A	220	230	220	210	210	220	220	[230] ^M	240	240					
7							(280)	250 ^K	230 ^K	A ^K	A ^K	200 ^K	[220] ^K	220 ^K	220 ^K	220 ^K	220 ^K	220 ^K	230 ^K					
8							230 ^K	220 ^K	200 ^K	210 ^K	190 ^K	190 ^K	210 ^K	210 ^K	220 ^K	220 ^K	[220] ^K	230 ^K	210 ^K					
9							240 ^K	230 ^K	210 ^K	210 ^K	210 ^K	200 ^K	200 ^K	230 ^K	210 ^K	220 ^K	200 ^K	(250) ^K	240 ^K	230 ^K				
10							220	230	210	200	220	190 ^M	200 ^M	200 ^M	200 ^M	230	220	210	240					
11							260	230	230	210	220 ^M	210	200	220	220 ^M	220	220	(250)	A					
12							C	C	C	C	[210] ^M	210	220	220	210	A	A	A	220	240				
13							230 ^M	230 ^K	210 ^K	190 ^M	200 ^M	200 ^K	200 ^K	200 ^K	220 ^K	220 ^K	210 ^K	220 ^K	230 ^K	(260) ^K				
14							220 ^M	230 ^K	210	220	200	200	230	A	A	A	C	220	A					
15							(230)	240	230	220	210	230	210	[200] ^M	210	220	220	230	A					
16							250 ^K	220 ^K	200 ^K	210 ^K	180 ^K	170 ^K	250 ^K	200 ^K	220 ^K	230 ^M	220 ^K	220 ^K	230 ^K					
17							(290)	210 ^K	210 ^K	210 ^K	180 ^K	(190) ^K	210 ^K	(190) ^K	200 ^K	(270) ^K	220 ^K	230 ^K	250 ^K					
18							250	230 ^M	200 ^M	[220] ^M	210	200	200	(200)	230	230	220	240	230					
19							C ^K	C ^K	C ^K	C ^K	210 ^K	(190) ^K	[220] ^K	200 ^K	220 ^K	(240) ^K	240 ^K	C ^K	C ^K					
20							[210] ^C	230	210	A	C	C	C	C	C	C	C	C	C					
21							C	C	C	C	210	200	220	(200)	(210)	(200)	220	230	[240] ^C					
22							230	220	230	210	(220)	200	[200] ^M	190 ^M	[210] ^C	230	[250] ^M	A	A					
23							240	230	A	C	A	C	A	C	A	A	A	A	220 ^M					
24							230	230	210	210	(210)	200	200	(200)	(230)	210	220	220	230					
25							220	190	200	[220] ^M	A	210	210	[200] ^M	200 ^M	210 ^M	[210] ^C	220	A					
26							230	240	220	220	220	180 ^M	(220)	[210] ^C	210 ^M	(240)	A	A	A					
27							250	220	210	190	210	220	(210)	270	(210)	200 ^M	220	220	240	260				
28							240	230	220	[230] ^C	[220] ^M	(250)	220 ^M	[210] ^M	[210] ^M	(240)	A	220	A					
29							A	190	200	180	200 ^M	200	(220)	[230] ^M	(220)	220 ^K	210 ^K	[230] ^K	230 ^K					
30							^K	(250)	[230] ^M	A	A	A	A	220	210	(220)	210	A	A					
31																								
Median							260	230	230	210	210	200	210	210	210	220	220	220	230					
Count						5	16	26	23	22	24	37	27	27	37	36	24	23	20					

TABLE 69 IONOSPHERE DATA - 5

Washington, D.C. Ionosphere Station

National Bureau Of Standards

Hourly values of f^oF_1 in μ for June 1946

Records measured by: A. K. B.
J. L. S.

TIME: 75° W MERIDIAN

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1						L	(43)	46	50	49	50	50	(52)	51 ^M	(50)	50	47	(46)	L					
2						L	47	A	A	A	A	50	51	51	49	50	48	44	L					
3						L	43	48	48	51	51 ^M	50 ^M	50 ^M	50 ^M	50 ^M	49	47	44	L					
4					L	35	42	47	(52)	(52)	50 ^M	50 ^M	50	51	50 ^M	48	(46)	43	L					
5						(37)	44	(47)	48	50	50	52	52 ^M	51 ^M	50	51	(45)	45	L					
6						A	(42)	(45)	48	49	49	50	51	49	49	47	44	(45)	L					
7					28	36 ^K	40 ^K	43 ^K	(46)	48 ^K	(46)	48 ^K	(47)	46 ^K	46 ^K	47 ^K	44 ^K	43 ^K	38 ^K					
8						35 ^K	40 ^K	42 ^K	44 ^K	45 ^K	46 ^K	47 ^K	47 ^K	47 ^K	47 ^K	45 ^K	44 ^K	41 ^K	(38)					
9						36 ^K	38 ^K	41 ^K	43 ^K	46 ^K	(45)	47 ^K	47 ^K	46 ^K	46 ^K	45 ^K	45 ^K	43 ^K	39 ^K	L ^K				
10						L	42	45	48	49	49 ^M	50 ^M	50 ^M	49	48 ^M	47	45	43	L					
11					L	(38)	42	(44)	48 ^M	48	49	49	50	51	48 ^M	47	46	42	A					
12						C	C	C	(48)	48	48	48	50	49	48	47	(47)	(47)	44	38	L			
13						L ^K	42 ^K	42 ^K	45 ^K	47 ^K	48 ^K	48 ^K	(48)	(48)	47 ^K	47 ^K	45 ^K	43 ^K	39 ^K	L ^K				
14						L ^K	44 ^K	48	49	50	51	51	51	51	51	A	C	(45)	A					
15						39	43	(47)	50	50	52	(52)	(52)	52	52	50	47	47	A					
16						(40)	44 ^K	45 ^K	(50)	50 ^K	50 ^K	50 ^K	52 ^K	51 ^K	51 ^K	50 ^K	50 ^K	46 ^K	(47)					
17						45 ^K	41 ^K	45 ^K	46 ^K	48 ^K	48 ^K	49 ^K	49 ^K	49 ^K	(48)	48 ^K	46 ^K	44 ^K	39 ^K					
18						38	44 ^M	45 ^M	48	51	51	51	51	51	52	51	48	49	L					
19						C ^K	C ^K	C ^K	C ^K	47 ^K	49 ^K	50 ^K	50 ^K	50 ^K	50 ^K	50 ^K	48 ^K	C ^K	C ^K					
20						C	(43)	(48)	50	C	C	C	C	C	C	C	C	C	C					
21						C	C	C	C	50	50	50	52	50	(51)	(50)	48	47	C					
22						40	44	47	48	51	51	(51)	(51)	52 ^M	(51)	49	48	A	A					
23						39	45	(48)	(51)	C	C	C	(52)	(52)	(52)	(52)	(50)	(48)	L ^H					
24						L	L	(46)	(52)	53	(50)	53	(53)	(53)	52	52	(52)	47	L					
25					L	L	L	(47)	(51)	(52)	51	53	(53)	(53)	51 ^M	50 ^M	(48)	(50)	L					
26						L	(45)	48	49	52	52 ^M	53	53	52	51 ^M	53	A	A	L					
27					L	L	(47)	(48)	49	50	50	50	53	52	50	50 ^M	48	46	L	L				
28						L	L	47	47	50	50	50	51	52	(51)	50	48	45	L					
29					L	(35)	35	49 ^M	(50)	49 ^M	50	50	50	50	(47)	52 ^K	48 ^K	47 ^K	L ^K					
30					K	L	43	46	A	A	A	(51)	(51)	51	(50)	51	47	(44)	L					
31																								
Median						3.8	4.3	4.6	4.8	5.0	5.0	5.1	5.1	5.1	5.0	5.0	4.7	4.5	3.8					
Count						13	24	26	25	26	27	28	29	29	29	28	26	26	7					

TABLE 70
IONOSPHERE DATA - 6

(Location) Washington, D.C. Ionosphere Station
(Institution) National Bureau of Standards

Hourly values of f^oE in μ for June 1946
Records measured by: A K B.
J L S.

TIME: 75°W MERIDIAN

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1						120 ^M	110	110	110	100	100	110	110	110	100	110	110	100	100	120				
2						110	110	110	110	110	110	110	110	110	110	110	110	110	110	120				
3						110	110	110	110	100	100	100	100	110	110	110	110	110	110 ^M	120				
4						120	110	110	110	110	110	100	100	110	110	110	110	110	110 ^M	120				
5						110	110	110	100	100	100	110	110	110	110	110	110	110	120	120				
6						120	110	110	100	100	100	110	110	110	110	110	110	110	110	120				
7						110	110 ^K	110 ^K	100 ^K	100 ^K	110 ^K	100 ^K	100 ^K	110 ^K	110 ^K	110 ^K	110 ^K	110 ^K	110 ^K	130 ^K				
8						[120] ^K	110 ^K	110 ^K	110 ^K	110 ^K	100 ^K	100 ^K	100 ^K	110 ^K	110 ^K	110 ^K	110 ^K	110 ^K	110 ^K	120 ^K				
9						110 ^K	110 ^K	110 ^K	100 ^K	100 ^K	110 ^K	100 ^K	110 ^K	110 ^K	100 ^K	100 ^K	110 ^K	110 ^K	110 ^K	120 ^K				
10						110 ^K	110	110	100	110	110	100	100	100	110	100	110	110	110	120				
11						140	110	110	110	100	100	100	100	100	100	100	110	110	120	120				
12						C	C	C	C	C	100	100	110	110	110	100	100	100	110	120 ^M				
13						(120) ^K	110 ^K	110 ^K	110 ^K	100 ^K	100 ^K	100 ^K	100 ^K	100 ^K	100 ^K	100 ^K	100 ^K	110 ^K	110 ^K	120 ^K				
14						(130) ^K	110 ^K	110 ^K	110 ^K	110	110	110	110	110	110	110	[110] ^C	110	110	120				
15						120	110	110	100	100	(110)	100	(100)	110	110	110	110	110	(110)	(120)				
16						(120)	120 ^K	110 ^K	110 ^K	110 ^K	(120) ^K	(110) ^K	110 ^K	110 ^K	110 ^K	(110) ^K	[110] ^C	110 ^K	110 ^K	120 ^K				
17						120 ^K	110 ^K	110 ^K	110 ^K	110 ^K	110 ^K	110 ^K	110 ^K	110 ^K	110 ^K	(110) ^K	110 ^K	110 ^K	110 ^K	120 ^K				
18						C	(120)	110	110	110	110	110	110	110	110	100	110	110	100	130 ^K				
19						C ^K	C ^K	C ^K	C ^K	C ^K	110 ^K	110 ^K	110 ^K	110 ^K	110 ^K	110 ^K	110 ^K	110 ^K	C ^K	C ^K				
20						C	[110] ^C	110	110	100	C	C	C	C	C	C	C	C	C	120				
21						C	C	C	C	C	110	110	110	110	110	100	110	110	[110] ^C	120 ^M				
22						120 ^M	110	110	110	100	100	100	110	100	[100] ^C	110	110	110	110	120				
23							100	110	110	110	110	110	110	100	110	110	110	110	100	120				
24						110	110	110	110	110	110	110	110	100	100	110	100	110	110	120				
25						C	110	110	110	110	110	110	110	110	100	110	[110] ^F	110	110					
26							100	100	100	100	110	110	110	110	110	100	110	110	110	110				
27						(110)	110	110	100	110	110	110	110	110	100	110	110	110	110	110				
28						(130)	110	110	100	100	110	110	100	110	110	100	110	110	110	110				
29						A	110	110	110	110	110	110	110	110	[110] ^F	110 ^K	110 ^K	110 ^K	110 ^K	110 ^K				
30						A ^K	110	110	110	110	110	110	110	100	110	110	110	110	110	110				
31																								
Median						120	110	110	110	110	110	110	110	110	110	110	110	110	110	120				
Count						20	27	27	27	27	29	29	29	29	29	29	29	28	28	28				

TABLE 71
IONOSPHERE DATA - 7

Washington, D.C.
National Bureau of Standards
(Location)
(Institution)

Ionosphere Station

Hourly values of f^oF_2 for June 1946
(Month)

Records measured by: A. K. B.
J. L. S.

TIME: 75°W MERIDIAN

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1						1.6 ^M	(2.3)	2.7	(3.1)	3.3	(3.5)	(3.6) ^M	3.7	(3.7) ^C	(3.7) ^C	(3.5)	(3.3) ^F	(3.0)	(2.5)	(1.8)				
2						A	2.3	2.8	3.1	3.5	(3.5)	(3.8)	(3.8) ^M	(3.8)	B	C	C	(2.9)	2.5	(1.6)				
3						(1.6)	2.2	2.8	(3.1)	3.4	3.4	(3.5)	C	C	(3.6)	(3.4) ^F	(3.2)	(2.8)	2.3 ^M	A				
4						(1.8)	2.3	2.8	(3.1)	(3.4)	(3.6) ^M	3.6	(3.7)	(3.7)	(3.6) ^C	(3.4)	C	A	2.4 ^M	1.7				
5						A	2.4	2.8	(3.2)	3.4	3.5	(3.6)	(3.8)	(3.7) ^C	(3.6)	(3.5) ^C	3.3	(3.0)	2.4	1.8				
6						(1.6)	2.3	2.7	A	A	A	A	(3.8)	(3.7)	(3.7)	3.5	3.3	2.9	2.4	A				
7						A	(2.3) ^M	(2.6) ^F	(3.0) ^M	(3.3) ^F	3.4 ^M	(3.4) ^F	(3.7) ^M	(3.6) ^F	(3.6) ^F	(3.6) ^F	3.3 ^M	2.9 ^M	(2.4) ^M	1.6 ^M				
8						(1.6) ^M	2.3 ^M	2.7 ^M	(2.9) ^M	C ^K	B ^K	C ^K	C ^K	C ^K	A ^K	(3.5) ^M	(3.2) ^M	(2.9) ^M	(2.3) ^M	(1.7) ^M				
9						A ^K	(2.3) ^F	(2.7) ^F	(3.1) ^F	(3.2) ^F	C ^K	C ^K	C ^K	C ^K	C ^K	C ^K	(3.1) ^M	2.8 ^M	(2.5) ^M	A ^K				
10						A ^K	A	(2.8)	(3.0)	3.3	3.4	3.6	(3.6)	(3.7)	(3.5)	3.4	(3.2)	(2.8)	2.4	A				
11						C	(2.4)	2.7	(3.1)	3.3	(3.6) ^M	(3.8)	A	A	A	A	(3.4)	2.9	2.4	(1.6)				
12						C	C	C	C	C	A	A	A	A	A	A	A	A	2.4	1.8 ^M				
13						(1.8) ^M	(2.4) ^F	(2.8) ^F	(3.1) ^M	(3.3) ^F	(3.5) ^F	(3.8) ^M	3.8 ^M	(3.7) ^F	(3.7) ^F	(3.6) ^M	3.3 ^M	(2.9) ^M	2.5 ^M	A ^K				
14						1.6 ^M	(2.4) ^F	2.8 ^M	(3.2)	(3.4) ^M	(3.5)	(3.6) ^M	(3.9) ^F	(3.9)	A	(3.6)	(3.4)	(3.1)	A					
15						(1.4)	2.3	(2.9)	(3.3) ^M	A	A ^K	A	C ^K	C ^K	(3.6) ^M	(3.7) ^F	(3.5) ^F	(3.1) ^F	(2.4) ^F	(1.8) ^M				
16						(1.4)	2.4 ^M	(2.9) ^F	(3.3) ^M	3.5 ^M	A ^K	C ^K	C ^K	C ^K	(3.6) ^M	(3.7) ^F	(3.5) ^F	(3.2) ^F	(2.7) ^M	A ^K				
17						(1.7) ^M	C ^K	A ^K	(3.2) ^M	A ^K	A ^K	A	C ^K	(3.7) ^M	(3.8)	(3.7) ^F	(3.5) ^F	(3.2) ^F	(2.5) ^M	(1.8) ^M				
18						C	(2.3)	(2.9) ^M	(3.2)	A	A	A	C ^K	C ^K	C ^K	C ^K	(3.3) ^F	C ^K	C ^K	C ^K				
19						C ^K	C ^K	C ^K	C ^K	C ^K	(2.5) ^F	C	C	C	C	C	C	C	C	C				
20						C	(2.5) ^F	(3.0)	(3.3) ^F	3.5	C	C	C	C	C	C	C	C	C	C				
21						C	C	C	C	C	A	A	3.8	(3.7)	3.8	(3.7) ^F	(3.5) ^F	(3.3)	(2.2) ^F	1.8 ^M				
22						1.6 ^M	(2.3)	(3.0)	(3.4)	A	A	(3.9)	A	A	C	A	A	3.3	2.7	(1.8)				
23							A	(2.9)	3.4	(3.6) ^M	(3.6)	A	A	A	A	A	A	A	(2.8)	A				
24						(1.6)	(2.4)	2.9	(3.3) ^M	3.8	A	A	A	A	A	A	A	(3.1)	(2.7) ^M	A				
25							A	A	(3.3) ^M	3.4	A	A	A	A	A	3.8	(3.5) ^F	(3.1)	2.7					
26							2.5	(2.9)	3.4	(3.7)	(3.8) ^M	(3.7)	(3.7)	(3.7)	3.7	3.7	3.5	3.3	2.7	A				
27						1.6	(2.5)	2.9	(3.3)	3.8	(3.9) ^M	(4.0) ^M	(4.0)	(4.0)	(3.8)	(3.8)	(3.6)	3.3	(2.7)	(2.0)				
28						C	(2.4)	(3.1)	(3.3)	(3.6) ^F	(3.7)	(3.8) ^M	(3.8)	(4.0) ^M	(4.0) ^M	(3.9) ^M	(3.5)	A	A	A				
29						A	A	(2.8)	(3.0)	(3.5)	(3.7)	3.7	(3.8)	B	B	B ^K	(3.6) ^F	(2.7) ^F	A ^K					
30						A ^K	A	A	3.2	3.5	(3.6) ^M	(3.6) ^M	(3.8)	A	A	(3.8)	(3.5)	A	A	A				
31																								
Median						(1.6)	(2.3)	(2.8)	(3.2)	3.4	(3.5)	(3.6)	(3.8)	(3.7)	(3.7)	(3.6)	(3.4)	(3.1)	(2.5)	(1.8)				
Count						13	20	24	26	21	17	16	17	16	17	20	23	23	25	14				

Washington, D.C.

Ionosphere Station

National Bureau of Standards
(Institution)TABLE 72
IONOSPHERIC DATAHourly values of E_s for June 1960
(Month)Records measured by: A. K. B.
J. L. S.

TIME: 75° W MERIDIAN

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
1	23	110	30	110	29	120	54	120	48	110	38	120	39	100				29	100	35	120	57	110	53	110
2	22	110	38	110	37	110	48	120	53	110	66	110	57	110		33	140	35	120	32	120	35	110	21	140
3	30	47	53	110	40	110	28	100	38	110	50	110	44	120		(52)	36	130	(37)	120	41	120	44	120	55
4	27	120	29	120	28	120	52	110	40	120	50	120	58	120	37	120	53	120	(36)	110	36	120	24	120	28
5	32	100	37	110	42	110	35	110	32	110	41	100	53	110	38	120	38	120	27	130	29	140	27	120	27
6	32	100	37	110	42	110	35	110	32	110	41	100	53	110	38	120	38	120	52	120	46	120	60	120	54
7	30	20	48	120	29	120	52	110	38	110	53	110	82	100	30	110	30	110	30	110	30	110	30	110	30
8	30	20	48	120	29	120	52	110	38	110	53	110	82	100	30	110	30	110	30	110	30	110	30	110	30
9	30	20	48	120	29	120	52	110	38	110	53	110	82	100	30	110	30	110	30	110	30	110	30	110	30
10	30	20	48	120	29	120	52	110	38	110	53	110	82	100	30	110	30	110	30	110	30	110	30	110	30
11	30	20	48	120	29	120	52	110	38	110	53	110	82	100	30	110	30	110	30	110	30	110	30	110	30
12	30	20	48	120	29	120	52	110	38	110	53	110	82	100	30	110	30	110	30	110	30	110	30	110	30
13	30	20	48	120	29	120	52	110	38	110	53	110	82	100	30	110	30	110	30	110	30	110	30	110	30
14	30	20	48	120	29	120	52	110	38	110	53	110	82	100	30	110	30	110	30	110	30	110	30	110	30
15	30	20	48	120	29	120	52	110	38	110	53	110	82	100	30	110	30	110	30	110	30	110	30	110	30
16	30	20	48	120	29	120	52	110	38	110	53	110	82	100	30	110	30	110	30	110	30	110	30	110	30
17	30	20	48	120	29	120	52	110	38	110	53	110	82	100	30	110	30	110	30	110	30	110	30	110	30
18	30	20	48	120	29	120	52	110	38	110	53	110	82	100	30	110	30	110	30	110	30	110	30	110	30
19	30	20	48	120	29	120	52	110	38	110	53	110	82	100	30	110	30	110	30	110	30	110	30	110	30
20	30	20	48	120	29	120	52	110	38	110	53	110	82	100	30	110	30	110	30	110	30	110	30	110	30
21	30	20	48	120	29	120	52	110	38	110	53	110	82	100	30	110	30	110	30	110	30	110	30	110	30
22	30	20	48	120	29	120	52	110	38	110	53	110	82	100	30	110	30	110	30	110	30	110	30	110	30
23	30	20	48	120	29	120	52	110	38	110	53	110	82	100	30	110	30	110	30	110	30	110	30	110	30
24	30	20	48	120	29	120	52	110	38	110	53	110	82	100	30	110	30	110	30	110	30	110	30	110	30
25	30	20	48	120	29	120	52	110	38	110	53	110	82	100	30	110	30	110	30	110	30	110	30	110	30
26	30	20	48	120	29	120	52	110	38	110	53	110	82	100	30	110	30	110	30	110	30	110	30	110	30
27	30	20	48	120	29	120	52	110	38	110	53	110	82	100	30	110	30	110	30	110	30	110	30	110	30
28	30	20	48	120	29	120	52	110	38	110	53	110	82	100	30	110	30	110	30	110	30	110	30	110	30
29	30	20	48	120	29	120	52	110	38	110	53	110	82	100	30	110	30	110	30	110	30	110	30	110	30
30	30	20	48	120	29	120	52	110	38	110	53	110	82	100	30	110	30	110	30	110	30	110	30	110	30
Median	3.4	2.9	2.9	2.9	2.6	3.7	4.0	4.2	4.6	5.2	5.1	4.2	4.2	4.0	3.8	3.8	3.7	3.5	3.7	3.7	3.2	4.0	4.0	3.5	
Count	29	29	29	29	28	27	27	27	27	29	29	29	29	29	29	29	27	27	28	29	29	28	28	29	

TABLE 73 IONOSPHERE DATA - 9

(Location) Washington, D.C. Ionosphere Station
(Institution) National Bureau Of Standards

Hourly values of F2-MI500 for June 1946 (Month)
Records measured by: A. K. B.
J. L. S.

TIME: 75°W MERIDIAN

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	(1.8)	1.8 F	1.8	1.8 F	1.8 F	(2.2)	(2.0) F	2.1	2.0	2.0	(2.2)	1.9	1.8	1.8	1.9	1.9	1.9	C	2.0	C	C	(2.0)	(1.9)	1.8
2	1.8	2.0	1.8	1.8	1.8	2.0	2.3	1.9	2.0	2.1	2.1	(2.0)	1.9	1.8	1.9	1.9	1.9	1.9	2.0	2.0	1.9	(1.9)	2.0	2.0
3	1.8	1.8	1.9	1.9	1.9	2.0	2.1	2.1	2.0	2.1	1.9	2.0	1.9	1.8	C	1.9	(2.0)	1.9	1.9	2.0	2.0	(1.9)	C	(1.9)
4	1.9	1.8	1.8	1.8	1.8	1.9	(2.1)	(2.2) F	2.2 H	1.8	(1.8)	1.8	1.8	1.8	1.9	2.0	C	2.0	2.0	(2.0)	C	(2.0)	(2.0) F	1.9
5	1.9	1.9	1.9	1.9	1.9	1.9	(2.1)	2.2	1.8	1.9	1.9	(2.0)	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.9	2.0	1.9	1.9	(1.9) F
6	(2.1)	1.9	1.8	1.8	1.9	1.9	(1.9)	A	1.6	(1.8)	(1.8)	(1.8)	C	1.7	1.9	1.9	1.9	1.8	2.0	1.9	(1.8) F	1.8	1.8	1.9
7	1.9	1.9	1.8	1.7 F	(1.8) F	1.7	1.9 K	1.8 K	1.8 K	A	1.6 K	(1.8) K	A	1.8 K	1.6 K	(1.7) K	1.8 K	1.9 K	1.4 K	2.0 K	1.9 K	(1.8) K	1.7 K	1.8 K
8	1.8 K	1.9 K	1.8 K	1.8 K	(1.8) K	2.0 K	2.1 K	1.8 K	1.8 K	1.6 K	1.5 K	1.5 K	(1.4) K	(1.6) K	(1.7) K	(1.7) K	1.8 K	1.7 K	1.4 K	(2.1) K	(2.2) K	(1.9) K	(1.9) K	(1.6) K
9	1.8 K	(1.7) K	(1.7) K	(1.7) K	(1.8) K	1.8 K	G	G	G	G	G	G	G	(1.4) K	(1.5) K	1.7 K	1.8 K	1.4 K	1.9 K	2.0 K	1.9 K	1.9 K	1.9 K	1.9 K
10	2.0 K	(1.9) K	1.4 K	1.5 K	2.0 K	2.1	2.2	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.9	1.9	1.9	2.0	1.9	2.0	C	(2.1) F	(1.9)	1.8
11	1.8	1.8	1.8	1.8	1.7	1.8	1.7	2.0	(1.9)	(2.0)	1.8	(2.0)	(1.8)	C	(1.8)	2.0	1.9	1.4	2.0	2.0	1.9	C	C	C
12	C	C	C	C	C	C	C	C	C	C	A	(1.4)	(1.6)	1.7	1.8	1.8	1.9	1.7	(1.9)	(1.9)	2.0 K	C K	(1.9) K	2.0 K
13	1.7 K	(1.4) F	1.8 K	1.9 K	1.7 K	1.9 K	(1.9) K	(1.7) K	1.7 K	1.7 K	(1.5) K	G K	G K	C K	1.6 K	1.6 K	1.6 K	1.8 K	1.9 K	2.1 K	(2.1) K	(1.9) K	(1.9) K	(1.8) K
14	(1.8) K	1.8 K	1.8 K	(1.8) K	(1.9) K	2.0 K	1.8 K	2.1 K	1.1	C	1.8	1.9	1.9	1.9	1.8	1.7	C	C	C	C	C	C	C	C
15	(1.9)	(1.9)	1.4	1.7	1.7	(1.5)	(1.5)	(2.0)	(1.8) K	(1.6) K	(1.6) K	C K	C K	C K	C K	(2.0) K	C K	C K	C K	C K	C K	C K	C K	C K
16	1.8	1.9	1.8	1.9	1.8	1.8	1.8 K	2.0 K	(1.8) K	(1.6) K	(1.6) K	C K	C K	C K	C K	(1.8) K	C K	C K	C K	C K	C K	C K	C K	C K
17	(1.7) K	(2.0) K	1.7 K	(1.8) K	2.0 K	1.7 K	G K	1.6 K	1.5 K	(1.6) K	(1.7) K	G K	G K	G K	1.6 K	1.6 K	1.7 K	1.7 K	1.8 K	(2.1) K	(2.0) K	(1.4) K	(1.9) K	(1.9) K
18	1.8 K	1.7	1.8	(1.9)	1.8 F	1.7	1.8	1.8	(2.0)	C	C	(2.0)	C	1.7	1.6	1.8	1.8	1.8	1.7	2.0 K	1.9 K	1.8 K	1.7 K	C K
19	1.7 K	(1.8) K	1.4 K	1.4 K	(1.9) K	C K	C K	C K	C K	C K	(1.7) K	(1.7) K	(1.5) K	C K	(1.8) K	1.7 K	C K	C K	C K	C K	C K	C K	C K	C K
20	C	C	C	C	C	C	C	1.8	(1.8)	(2.0)	C	C	C	C	C	C	C	C	C	C	C	C	C	C
21	(1.8)	1.6	(1.9)	C	C	C	C	C	C	C	(1.6)	C	C	C	C	C	1.8	1.8	C	(1.9)	(1.9)	1.8	1.8	1.8
22	1.8	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.6	C	C	C	C	(1.6)	1.7	1.9	A	(2.0) F	(1.8) F	(1.7) F	(1.8)	1.9
23	(1.9)	1.9	1.8	1.7	1.7	(1.8)	2.1	1.9	1.4	C	C	C	(1.8)	C	1.7	1.9	1.8	1.4	1.8	(1.8)	(1.9)	(1.9)	(1.7)	(1.8)
24	(1.6) F	2.0	1.8	1.4	1.9	1.9	1.9	2.2	1.7	(1.9)	(2.1)	(1.5)	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9
25	(1.7) F	1.7	(1.7) F	1.7	1.9	1.9	2.0	1.9	(1.9) F	1.8	A	C	1.7	1.6	1.7	1.7	C	(1.8)	1.8	1.8	(2.0)	(1.7)	1.7	1.7
26	(1.8)	1.7	(1.7) F	(1.9) F	1.7	1.7	1.8	2.0	(1.8)	(1.8)	1.4	C	1.8	1.8	(1.7)	1.7	A	A	1.8	(1.8)	(1.7)	(1.8)	1.8	1.8
27	1.8	1.8	1.7	1.7	1.8	(1.7)	(1.7)	G	(1.9)	(1.4)	1.6	(1.7)	1.5	1.5	1.6	1.6	1.6	1.7	1.8	1.7	1.8	(1.8)	(1.8)	(1.7)
28	(1.7)	(1.7)	(1.7) F	(1.8) F	(1.7) F	1.8	1.8	2.0	1.6	(1.5)	C	(1.8)	(1.6)	G	(1.6) F	(1.6) F	1.8	1.9	1.7	1.8	(1.8) F	1.7	1.8	1.7
29	1.6	1.6	1.6	1.7	1.9	2.0	1.8	(1.9)	1.8	(1.7)	(1.6)	(1.6)	1.6	(1.5)	(1.6)	1.6	1.6	(1.7)	(1.9)	(1.7)	(1.7)	(1.8) K	(1.8) K	1.7 K
30	(1.6) K	(1.6) K	1.6 K	(1.7) K	1.7 K	1.8 K	1.7	1.4	1.7	A	A	A	C	(1.7)	(1.7)	1.7	1.7	1.8	1.9	1.9	1.9	1.8	1.8	1.8
31																								
Median	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.8	1.8	1.8	1.9	2.0	1.9	(1.8)	(1.8)	1.8
Count	28	28	28	29	27	26	26	26	26	21	24	32	20	20	24	28	21	28	23	24	22	23	23	24

Washington, D.C.

Ionosphere Station

National Bureau of Standards

(Institution)

TABLE 74
IONOSPHERE DATA-10Hourly values of F2-M3000 for June 1966
(Month)Records measured by: A.K.B.
J.L.S.

TIME: 75°W MERIDIAN

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	(2.7)	2.7	2.7	2.7	2.8	(3.2)	(2.9)	3.1	2.9	2.9	(3.2)	2.8	2.8	2.8	2.9	2.8	2.9	C	3.0	C	C	(2.9)	(2.9)	2.7
2	2.8	3.0	2.7	2.7	2.8	3.0	3.3	2.8	3.0	3.1	3.1	(3.0)	2.9	2.8	2.8	2.9	2.8	2.9	3.0	3.0	2.9	(2.8)	3.0	2.9
3	2.8	2.8	2.8	2.9	2.9	3.0	3.1	3.1	2.9	3.1	2.9	3.0	2.9	2.7	C	2.8	(2.9)	2.9	2.9	2.9	3.0	(2.9)	C	(2.9)
4	2.8	2.8	2.8	2.8	2.8	2.9	(3.1)	(3.2)	2.9	2.7	(2.8)	2.7	2.8	2.8	2.8	3.0	C	2.9	3.0	(3.0)	C	(3.0)	(2.9)	2.9
5	2.9	2.9	2.9	(2.9)	2.9	2.9	(3.1)	3.2	2.8	2.9	2.9	(3.0)	2.8	2.9	2.8	2.9	2.7	2.8	2.7	2.9	3.0	2.8	2.9	(2.9)
6	(3.1)	2.9	2.8	2.7	2.9	2.9	(2.9)	A	2.5	(2.7)	(2.7)	(2.9)	C	C	2.7	2.8	2.9	2.8	3.0	2.9	2.9	(2.7)	2.8	2.9
7	2.9	2.9	2.8	2.7	(2.7)	2.7	2.9	2.8	2.7	A	2.4	(2.8)	A	2.7	2.5	(2.7)	2.7	2.8	2.9	2.9	2.9	2.7	2.6	2.7
8	2.7	2.9	2.8	2.7	(2.7)	3.0	3.1	2.8	G	2.5	2.2	2.2	(2.2)	(2.4)	(2.5)	(2.6)	2.8	2.7	2.8	(3.1)	(3.2)	(2.9)	2.8	(2.5)
9	2.7	(2.6)	(2.8)	(2.7)	(2.8)	2.8	G	G	G	G	G	G	G	(2.2)	(2.3)	2.6	2.7	2.8	2.9	3.0	2.8	2.9	2.8	2.9
10	3.0	(2.9)	2.9	2.9	3.0	3.0	3.1	3.2	2.9	2.8	2.9	(3.0)	(2.8)	C	(2.7)	3.0	2.9	2.9	3.0	3.0	C	(3.1)	2.9	2.8
11	2.8	2.7	2.8	2.8	2.7	2.7	2.6	3.0	(2.9)	(3.0)	2.8	(3.0)	(2.8)	C	(2.7)	3.0	2.9	2.9	3.0	3.0	C	(3.1)	2.9	2.8
12	C	C	C	C	C	C	C	C	C	C	C	(2.9)	(2.5)	2.7	2.8	2.8	A	2.8	(2.9)	2.9	3.0	C	C	C
13	2.6	(2.8)	2.7	2.7	2.7	2.9	(2.8)	(2.7)	2.6	2.6	(2.3)	G	G	C	2.4	2.5	2.4	2.7	2.9	3.1	(3.1)	2.8	(2.8)	3.0
14	(2.8)	2.8	2.7	2.7	(2.8)	3.0	2.8	3.1	2.8	C	2.8	2.8	2.8	2.8	2.8	2.9	C	C	C	C	C	C	C	C
15	(2.9)	(2.8)	2.9	2.6	2.7	(2.6)	(2.4)	(2.9)	C	C	C	C	C	C	C	(3.0)	C	C	C	C	C	C	C	C
16	2.7	2.8	2.8	2.9	2.9	2.8	2.7	3.0	(2.8)	(2.5)	(2.5)	C	G	G	2.4	2.4	2.6	2.7	2.8	2.8	(3.1)	(2.9)	(2.9)	(2.9)
17	(2.6)	(3.0)	2.5	2.5	(2.8)	2.9	G	2.4	2.3	(2.5)	(2.6)	G	G	2.5	2.5	2.7	2.7	2.8	2.7	3.0	2.9	2.8	2.6	C
18	2.7	2.6	2.7	(2.9)	2.8	2.7	2.8	2.7	(2.9)	C	C	(3.0)	C	C	(2.7)	2.5	2.7	C	C	C	C	C	C	C
19	2.6	(2.7)	2.8	2.8	(2.9)	C	C	C	C	C	(2.7)	(2.6)	(2.4)	C	(2.7)	C	C	C	C	C	C	C	C	C
20	C	C	C	C	C	C	C	2.8	(2.7)	(3.0)	C	C	C	C	C	C	C	C	C	C	C	C	C	C
21	(2.8)	2.5	(2.8)	C	C	C	C	C	C	C	(2.5)	C	C	C	C	C	2.7	2.7	C	(2.9)	(2.9)	2.7	2.7	2.7
22	2.7	2.8	2.7	2.8	2.7	2.8	2.7	2.7	2.7	2.7	2.5	C	C	C	C	(2.4)	(2.6)	2.8	A	(2.9)	(2.8)	(2.7)	(2.8)	2.8
23	(2.8)	2.9	2.8	2.5	2.6	(2.7)	3.1	2.9	2.9	C	C	C	(2.8)	C	2.7	2.8	2.8	2.8	2.8	(2.8)	(2.9)	(2.8)	(2.6)	(2.7)
24	(2.4)	3.0	2.8	2.8	2.8	2.9	3.0	3.2	2.9	(2.9)	(3.1)	(2.7)	2.7	2.8	2.7	2.7	2.7	2.7	2.8	2.7	2.7	2.7	(2.8)	2.8
25	(2.6)	2.6	(2.4)	2.5	2.8	2.9	3.0	2.8	(2.9)	2.8	A	2.6	2.6	2.5	2.5	2.7	C	(2.7)	2.8	2.8	(2.9)	(2.6)	2.6	2.6
26	(2.7)	2.6	(2.6)	(2.8)	2.6	2.6	2.8	3.0	(2.6)	(2.7)	2.8	C	2.8	2.7	2.7	2.7	A	A	2.7	(2.7)	(2.8)	(2.7)	2.7	2.7
27	2.7	2.8	2.7	2.6	2.7	(2.7)	(2.7)	G	(2.9)	(2.8)	2.5	(2.6)	B	2.3	2.3	2.4	2.5	2.6	2.7	2.6	2.7	(2.7)	(2.7)	(2.6)
28	(2.6)	(2.5)	(2.7)	(2.6)	(2.7)	2.7	2.8	3.0	2.4	(2.3)	C	(2.7)	(2.3)	G	(2.5)	(2.4)	2.7	2.9	2.6	2.8	(2.8)	2.7	(2.7)	(2.6)
29	2.5	2.5	(2.5)	2.6	2.8	2.9	2.8	(2.9)	2.7	(2.7)	(2.5)	(2.5)	2.4	(2.4)	(2.5)	2.4	2.5	2.5	(2.6)	(2.9)	(2.6)	(2.8)	(2.7)	2.7
30	(2.4)	(2.5)	2.5	(2.6)	2.6	2.8	2.7	2.9	2.6	A	A	A	C	(2.6)	(2.7)	2.6	2.7	2.8	2.8	2.8	2.9	2.7	(2.7)	(2.8)
31																								
Median	2.7	2.8	2.8	2.7	2.8	2.8	2.8	2.9	2.8	2.7	2.7	(2.8)	2.8	2.7	2.7	2.7	2.7	2.8	2.9	2.9	2.9	(2.8)	(2.8)	2.9
Count	28	29	28	27	27	26	26	26	26	21	22	22	20	20	24	28	21	23	23	24	22	23	23	23

TABLE 75 IONOSPHERE DATA- II

Washington, D.C. Ionosphere Station

National Bureau Of Standards
(Institution)

Hourly values of F1-M3000 for June 1946
(Month)

Records measured by: A.K.B.
J.L.S.

TIME: 75°W MERIDIAN

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1						L	(3.6)	3.7	3.4	3.7	3.8	3.8	3.8	3.4 ^H	3.7	3.3	3.4	(3.5)	L					
2						L	3.3	A	A	A	(3.8)	3.8	3.8	3.5	3.6	3.4	3.4	3.4	L					
3						L	(3.5)	(3.4)	3.6	3.7	3.6 ^H	3.8 ^H	3.8 ^H	3.6 ^H	3.6 ^H	3.4	3.5	(3.5)	L					
4					L	3.7	3.5	3.5	(3.3)	(3.8) ^H	3.8 ^H	3.8 ^H	3.5	3.5	3.6 ^H	3.5	C	3.5	L					
5						(3.7)	3.4	L	3.6	3.6	A	3.8 ^H	3.7 ^H	3.7 ^H	3.6	3.4	(3.5)	3.3	L					
6						A	(3.3)	3.4	3.4	3.4	3.6	3.6	3.6	3.7	3.7	3.7	(3.5)	(3.4)	L					
7					3.0	3.3 ^K	3.4 ^K	3.4 ^K	A ^K	A ^K	A ^K	3.6 ^K	A ^K	3.7 ^K	3.6 ^K	3.5 ^K	3.6 ^K	3.4 ^K	3.4 ^K					
8						(3.2) ^K	3.5 ^K	3.6 ^K	3.6 ^K	3.8 ^K	3.8 ^K	3.8 ^K	3.6 ^K	3.6 ^K	(3.6) ^K	3.8 ^K	(3.2) ^K	(3.5) ^K	(3.5) ^K					
9						3.3 ^K	3.5 ^K	3.5 ^K	3.7 ^K	3.9 ^K	(4.0) ^K	3.9 ^K	3.9 ^K	3.6 ^K	3.7 ^K	3.8 ^K	3.5 ^K	(3.3) ^K	3.4 ^K	L ^K				
10						L	3.6	3.9	3.7	3.7	3.7 ^H	(3.7) ^H	3.8	3.8	3.6 ^H	3.4	3.5	3.3	L					
11					L	L	3.4	(3.5)	3.7 ^H	A	3.6	3.8	3.8	3.5	(3.6) ^H	3.5	3.4	3.5	A					
12						C	C	C	C	A	3.7	3.5	3.5	3.5	3.5	A	A	(3.3)	3.5	L				
13						LH ^K	3.4 ^K	3.6 ^K	3.8 ^K	3.9 ^K	3.9 ^K	3.8 ^K	C ^K	3.7 ^K	3.5 ^K	3.6 ^K	(3.4) ^K	(3.4) ^K	3.2 ^K	L ^K				
14						L ^K	3.4 ^K	3.4	3.5	4.0	3.8	3.6	3.6	3.5	A	A	C	(3.5)	A					
15						(3.6)	3.4	(3.5)	3.7	3.8	3.7	C	C	A	3.5	3.5	(3.5)	(3.4)	A					
16						(3.2) ^K	3.8 ^K	(3.8) ^K	(3.6) ^K	(3.9) ^K	(4.0) ^K	3.5 ^K	3.5 ^K	(3.9) ^K	(3.6) ^K	(3.4) ^K	(3.3) ^K	(3.4) ^K	(3.4) ^K					
17						2.8 ^K	3.4 ^K	3.7 ^K	3.6 ^K	(4.1) ^K	(4.1) ^K	3.9 ^K	3.9 ^K	(3.9) ^K	(4.0) ^K	(3.5) ^K	3.6 ^K	3.3 ^K	3.5 ^K					
18						3.3	3.3 ^H	3.9 ^H	A	3.8	(3.9)	(4.1)	(3.8)	(3.8)	3.4	3.4	3.4	3.3	L					
19						C ^K	C ^K	C ^K	C ^K	3.6 ^K	(3.7) ^K	(3.5) ^K	(3.5) ^K	(3.6) ^K	3.5 ^K	3.4 ^K	3.5 ^K	C ^K	C ^K					
20						C	(3.4)	3.6	(3.2)	C	C	C	C	C	C	C	C	C	C					
21						C	C	C	C	C	3.6	3.7	3.6	(3.7)	(3.8)	(3.6)	3.5	3.3	C					
22						(3.2)	3.3	3.4	3.7	3.6	3.8	A	(3.9) ^H	C	(3.4)	(3.3)	(3.3)	A	A					
23						3.5	3.5	(3.1)	C	C	(4.1)	3.7	C	C	(3.4)	(3.3)	(3.3)	(3.4)	LH					
24						L	L	(3.6)	(3.4)	3.4	(4.1)	3.7	C	3.7	3.4	(3.3)	3.3	3.3	L					
25					L	L	L	(3.8)	C	A	3.6	3.4	(3.4)	(3.4)	3.3	3.4	C	(3.2)	L					
26						L	(3.3)	3.4	3.5	3.3	(3.6) ^H	3.6	(3.4)	(3.4)	3.7 ^H	(3.3)	A	A	L					
27					L	L	(3.2)	(3.5)	3.6	3.4	3.7	3.4	3.6	3.6	3.6	3.5 ^H	3.3	3.3	L	L				
28						L	L	3.4	3.4	A	3.5	3.5	3.5	3.5 ^H	C	3.3	A	3.6	L					
29					L	(4.1)	4.0	3.2 ^H	(3.2) ^H	3.5 ^H	3.6	3.6	3.6	3.4	(3.5)	3.4 ^K	3.4 ^K	3.3 ^K	L ^K					
30						L	3.3	3.4	A	A	A	A	A	3.4	(3.7)	3.4	3.6	A	L					
31																								
Median						3.3	3.4	3.5	3.6	3.7	3.7	3.6	3.6	3.6	3.6	3.4	3.5	3.4	3.4					
Count						12	23	25	21	21	26	24	24	25	26	27	23	25	7					

TABLE 76
IONOSPHERE DATA-12

Washington, D.C.

(Location)

Ionosphere Station

National Bureau of Standards

(Institution)

Hourly values of E-M1500 for

June 1946
(Month)

Records measured by: A.K.B.
J.L.S.

TIME: 75°W MERIDIAN

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1						(4.4)	A	(4.3)	(4.4)	4.3	(4.3)	A	(4.4)	C	C	(4.1)	C	(4.1)	(4.2)	A				
2						A	(4.4)	4.4	4.3	(4.3)	(4.5)	(4.4)	B	(4.4)	B	C	C	(4.3)	4.2	(4.3)				
3						(4.3)	(4.2)	4.2	(4.2)	4.5	4.5	C	C	C	4.3	C	(4.2)	(4.3)	4.2 ^M	A				
4						(4.1)	(4.2)	4.3	(4.3)	(4.4)	A	(4.4)	A	(4.3)	C	(4.3)	C	A	(4.1) ^M	3.9				
5						A	A	4.2	(4.3)	4.2	(4.2)	(4.2)	(4.1)	C	C	C	4.1	(4.2)	4.3	(4.1)				
6						A	(4.3)	(4.4)	A	A	A	A	(4.2)	(4.2)	(4.1)	4.3	4.2	(4.3)	(4.2)	A				
7						A	AK	(4.2) ^M	(4.2) ^M	AK	4.4 ^K	AK	AK	AK	AK	(4.2) ^M	4.1 ^K	4.3 ^K	(4.3) ^K	(4.2) ^K				
8						(4.0) ^K	(4.2) ^K	4.2 ^K	(4.3) ^K	C ^K	B ^K	C ^K	C ^K	C ^K	(4.2) ^K	C ^K	(4.3) ^K	(4.2) ^K	(4.2) ^K	(4.2) ^K				
9						AK	AF ^K	(4.2) ^K	C ^K	C ^K	C ^K	C ^K	C ^K	C ^K	C ^K	C ^K	(4.1) ^K	4.2 ^K	(4.2) ^K	A ^K				
10						AK	A	(4.4)	(4.2)	4.3	4.4	4.2	(4.3)	(4.3)	(4.2)	4.1	(4.1)	(4.2)	4.2	A				
11						C	(4.4)	4.3	(4.3)	(4.4)	A	(4.5)	A	A	A	A	(4.1)	(4.1)	4.2	A				
12						C	C	C	C	C	A	A	A	A	A	A	(4.1)	(4.1)	4.2	A				
13						(4.5) ^K	(4.4) ^K	AK	(4.3) ^K	(4.5) ^K	AK	(4.4) ^K	4.5 ^K	C ^K	AK	(4.2) ^K	4.2 ^K	(4.2) ^K	4.2 ^K	(4.2) ^K				
14						(4.2) ^K	(4.0) ^K	4.1 ^K	(4.3)	A	(4.2)	A	C	(4.3)	(4.3)	4.2	C	(4.3)	A	AK				
15						(4.1)	(4.3)	4.1 ^K	A	A	A	A	(4.4)	A	A	A	4.3	C	(4.2)	A				
16						(4.3)	(4.2) ^K	AK	(4.5) ^K	4.2 ^K	AK	C ^K	C ^K	C ^K	C ^K	(4.3) ^K	C ^K	C ^K	C ^K	(4.2) ^K				
17						(4.4) ^K	C ^K	AK	AK	AK	AK	C ^K	C ^K	C ^K	C ^K	(4.3) ^K	4.2 ^K	C ^K	(4.2) ^K	AK				
18						C	(4.4)	A	C	A	A	A	(4.3)	(4.3)	(4.3)	C	(4.4)	C	(4.2)	(4.2) ^K				
19						C ^K	C ^K	C ^K	C ^K	C ^K	(4.5) ^K	C ^K	C ^K	C ^K	C ^K	C ^K	C ^K	C ^K	C ^K	C ^K				
20						C	C	(4.2)	C	4.4	C	C	C	C	C	C	C	C	C	4.1				
21						C	C	C	C	C	C	A	4.5	(4.5)	(4.4)	C	C	(4.3)	C	(4.2)				
22						(3.9) ^K	A	(4.2)	(4.1)	A	A	(4.4)	A	A	A	A	A	4.3	4.3	A				
23							A	(4.2)	4.3	A	(4.4)	A	A	A	A	A	A	A	(4.3)	A				
24						(4.1)	(4.2)	(4.2)	A	4.2	A	A	A	A	A	A	A	(4.2)	A	A				
25							A	A	A	(4.2)	A	A	A	A	A	4.0	C	(4.2)	4.3					
26							4.0	(4.1)	4.0	(4.1)	A	(4.2)	(4.1)	C	4.3	4.1	4.0	4.1	4.1	A				
27						(4.0)	(4.3)	4.0	(4.2)	(4.2)	4.0	B	B	4.1	(4.2)	(4.3)	(4.2)	4.3	(4.2)	(4.0)				
28						C	(4.0)	(4.0)	(3.9)	C	(4.2)	B	(4.0)	B	A	A	(4.2)	A	A	A				
29						A	A	(4.3)	(4.2)	(4.1)	(4.0)	4.2	(4.1)	(4.1)	B	B	C ^K	C ^K	(4.2) ^K	AK				
30						AK	A	A	4.4	4.4	A	A	(4.2)	A	A	(4.2)	(4.2)	A	A	A				
31																								
Median						(4.3)	(4.3)	(4.3)	(4.3)	4.3	(4.4)	(4.4)	(4.2)	(4.3)	(4.3)	(4.2)	(4.2)	(4.2)	(4.2)	(4.2)				
Count						12	15	21	19	16	12	9	12	10	9	13	16	18	2.2	11				

Table 77

Ionospheric Storminess, June 1946

Day	Ionosphere Characters*		Principal Storms		Geomagnetic Characters**	
	00-12 G.C.T.	12-24 G.C.T.	Beginning G.C.T.	End G.C.T.	00-12 G.C.T.	12-24 G.C.T.
June						
1	2	3			2	1
2	1	3			1	1
3	0	3			1	0
4	1	2			1	1
5	0	3			1	2
6	0	2			3	2
7	2	4	1100	-----	2	4
8	3	5	-----	-----	3	4
9	3	5	-----	-----	3	2
10	2	2	-----	1100	1	2
11	2	3			3	2
12	***	1			3	3
13	3	5	0100	-----	3	2
14	3	1	-----	1300	2	1
15	1	1			2	2
16	2	5	1100	-----	2	3
17	3	5	-----	-----	3	2
18	2	1	-----	0600	3	3
19	4	4	0000	-----	4	3
20	1	***	-----	0300	2	2
21	2	2			3	2
22	1	2			2	2
23	2	0			2	0
24	1	3			1	1
25	1	1			2	2
26	0	1			2	2
27	1	3			2	3
28	2	3			3	3
29	2	2	2000	-----	3	4
30	4	1	-----	1100	1	1

*Ionosphere character figure (I-figure) for ionospheric storminess at Washington, D.C., during 12-hour period, on an arbitrary scale of 0 to 9, 9 representing the greatest disturbance.

**Average for 12 hours of American magnetic K-figure, determined by a number of observatories, on an arbitrary scale of 0 to 9, 9 representing the greatest disturbance.

+Dashes indicate continuing storm.

***No readable record.

Table 78

Sudden Ionosphere Disturbances Observed at Washington, D.C.

Day	GCT		Location of transmitters	Relative intensity at minimum *	Other Phenomena
	Beginning	End			
June 15	1912	1940	Ohio, D.C., England, Mexico New Brunswick, Surinam, Chile, Hawaii	0.0	
16	1232	1305	Ohio, D.C., New Brunswick	0.05-	Terr. mag. pulse ** 1228-1237
18	2018	2040	Ohio, D.C., Mexico, Surinam Chile, Hawaii	0.1	
18	2138	2150	Ohio, D.C., Mexico, Surinam Hawaii	0.1	
22	1822	2005	Ohio, D.C., Mexico, England, Surinam, Chile	0.02	Terr. mag. pulse ** 1818-1830
27	1557	1845	Ohio, D.C., Mexico, Ontario, England, Chile	0.02	
29	1704	***	Ohio, D.C., Mexico, Ontario Chile, Hawaii	0.05	
29	1842	1905	Ohio, D.C., Mexico, Ontario Chile, Hawaii	0.2	

* Ratio of received field intensity during SID to average field intensity before and after for station WJAL, 8060 kilocycles, 200 kilometers.

** As observed on Cheltenham magnetogram of the United States Coast and Geodetic Survey.

*** Incomplete recovery of SID

Table 79

Provisional Radio Propagation Quality Figures

May 1946

Compared with CRPL Warnings and CRPL Probable Disturbed Period Forecasts

Day	North Atlantic				North Pacific			
	Quality Figure	CRPL* Warning	CRPL** Probable Disturbed Period Forecast	Geo-magnetic K_A	Quality Figure	CRPL* Warning	CRPL** Probable Disturbed Period Forecast	Geo-magnetic K_A
	01-12 13-24 01-12 13-24 01-12 13-24	01-12 13-24 01-12 13-24 01-12 13-24	01-12 13-24 01-12 13-24 01-12 13-24	01-12 13-24 01-12 13-24 01-12 13-24	01-12 13-24 01-12 13-24 01-12 13-24	01-12 13-24 01-12 13-24 01-12 13-24	01-12 13-24 01-12 13-24 01-12 13-24	01-12 13-24 01-12 13-24 01-12 13-24
1	6 7			1 2	5 (4)			1 2
2	6 7			2 1	6 (4)			2 1
3	6 7			1 1	5 (4)			1 1
4	5 6	X	X	2 1	6 (4)	X	X	2 1
5	6 6		X	1 2	7 5		X	1 2
6	(4) 5	X X	X	4 3	5 (4)	X X	X	4 3
7	(4) 5	X X		4 2	5 (4)	X X		4 2
8	(4) 5	X X		4 3	5 6	X X		4 3
9	(4) 5	X X		4 4	(4) (4)	X X		4 4
10	(4) 5	X X		3 3	5 5	X X		3 3
11	5 5			4 3	6 6			4 3
12	(4) 5			2 2	5 6			2 2
13	(4) 6			2 1	6 6			2 1
14	6 6			1 1	7 7			1 1
15	6 6			1 1	7 6			1 1
16	6 6			2 2	8 7			2 2
17	6 6			2 2	7 6			2 2
18	5 6			3 2	7 6			3 2
19	6 6	X		1 0	6 6	X		1 0
20	5 6		X	1 3	7 (4)		X	1 3
21	(4) 5	X	X	4 3	5 (4)	X	X	4 3
22	(3) (4)	X X	X	4 3	(4) 5	X X	X	4 3
23	(3) 5	X X		3 4	5 6	X X		3 4
24	(4) 5	X X		3 3	5 5	X X		3 3
25	5 6	X X	X	3 2	6 7	X X	X	3 2
26	6 6	X X	X	2 2	5 (4)	X X	X	2 2
27	6 7			1 1	7 8			1 1
28	6 7			2 2	6 8			2 2
29	6 6			2 1	6 8			2 1
30	6 7			1 2	6 6			1 2
31	5 7			3 2	6 8			3 2

Score:

H	8	3	6	6
M	3	8	5	5
G	16	15	14	18
(S)	2	3	4	1
S	2	2	2	1

Quality Figure Scale:

- 1 = Useless
- 2 = Very poor
- 3 = Poor
- 4 = Poor to fair
- 5 = Fair
- 6 = Fair to good
- 7 = Good
- 8 = Very good
- 9 = Excellent

Symbols

- X = Warning given or probable disturbed date.
- H = Quality 4 or worse on day or half day of warning.
- M = Quality 4 or worse on day or half day of no warning.
- G = Quality 5 or better on day of no warning.
- (S) = Quality 5 on day of warning.
- S = Quality 6 or better on day of warning.
- (S) = Quality 4 or worse (disturbed).

Geomagnetic K_A on the standard scale of 0 to 9, 9 representing the greatest disturbance.

* Broadcast on WWV, Washington, D. C. Times of warnings recorded to nearest half-day as broadcast.

** In addition to dates marked X, the following were designated as probable disturbed days on forecasts more than eight days in advance of said dates: May 11, 12, 13, 23.

Table 80

Daily Median Values of American Relative Sunspot Numbers *

June 1946

Date	No.	Date	No.
1	32	16	76
2	35	17	101
3	34	18	112
4	28	19	92
5	53	20	106
6	65	21	89
7	66	22	96
8	64	23	101
9	66	24	120
10	66	25	102
11	53	26	88
12	78	27	94
13	60	28	74
14	61	29	77
15	96	30	79
No. Days 30		Mean 74.8	

* Median of data from 22 observers.

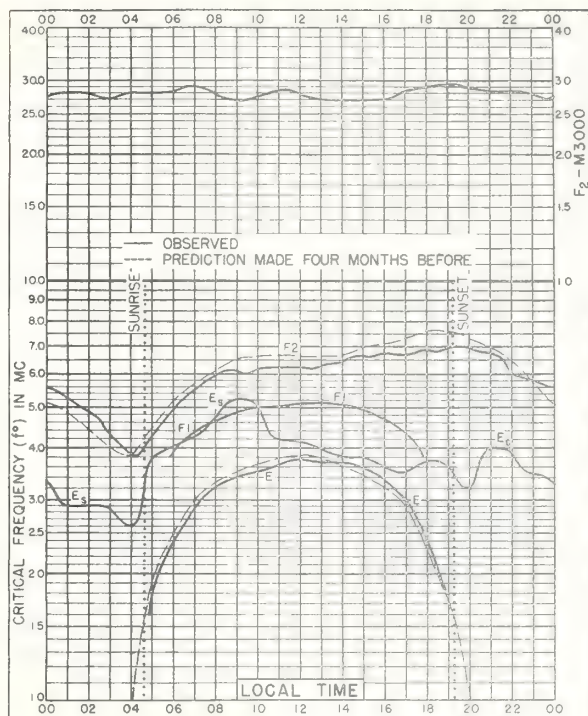


Fig. 1. WASHINGTON, D.C.
39.0°N, 77.5°W

JUNE, 1946

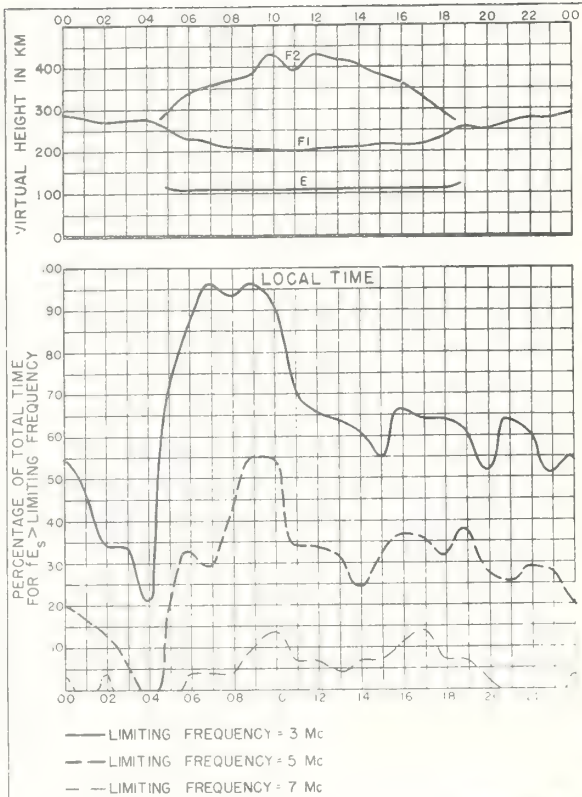


Fig. 2. WASHINGTON, D.C.

JUNE, 1946

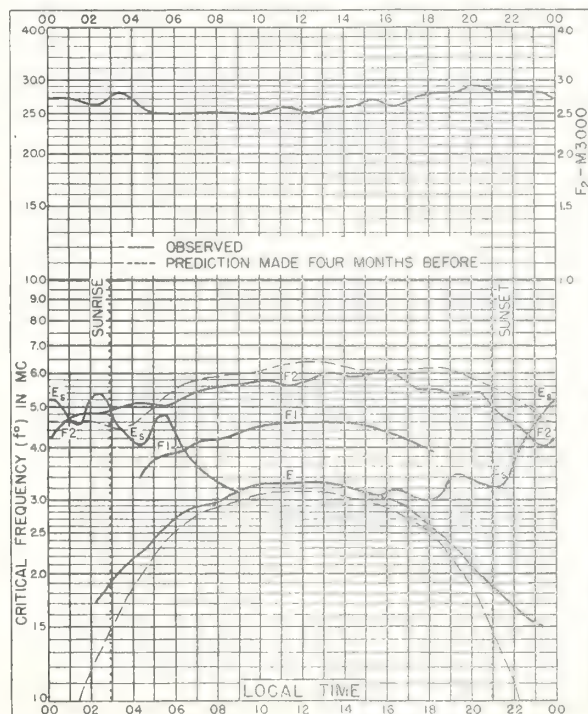


Fig. 3. FAIRBANKS, ALASKA
64.9°N, 147.8°W

MAY, 1946

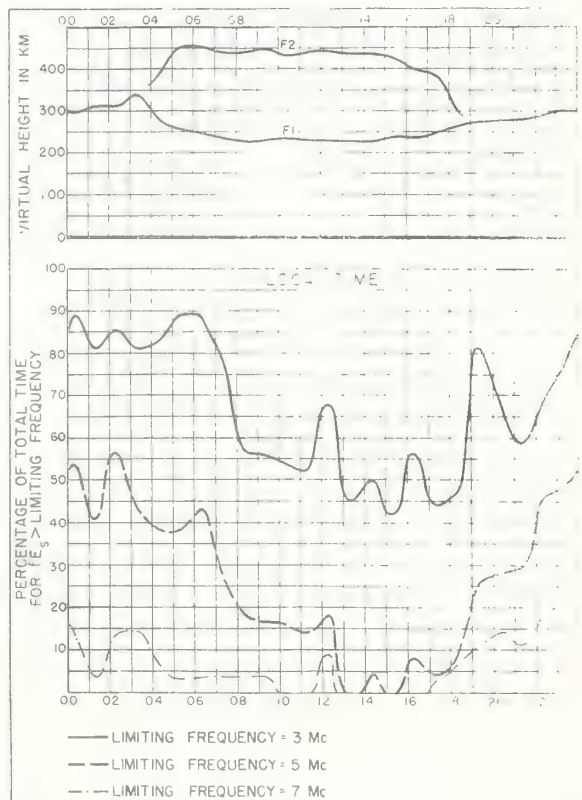
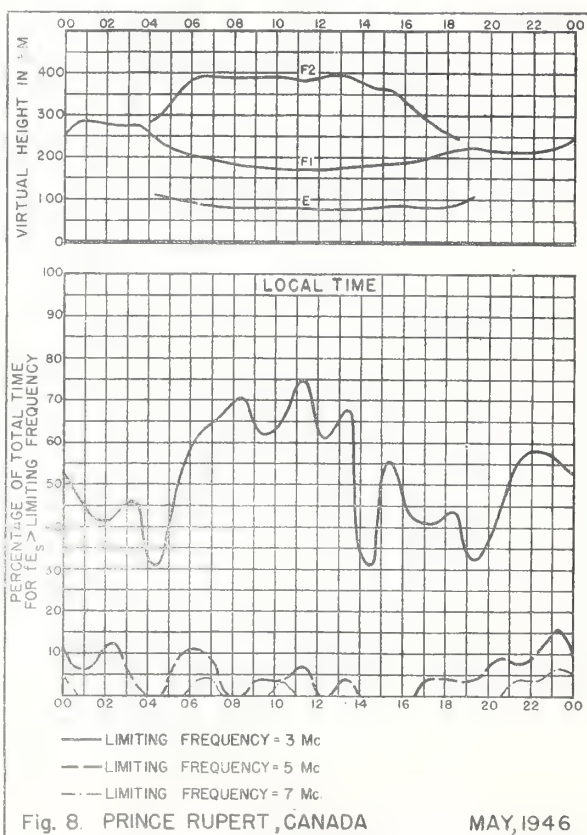
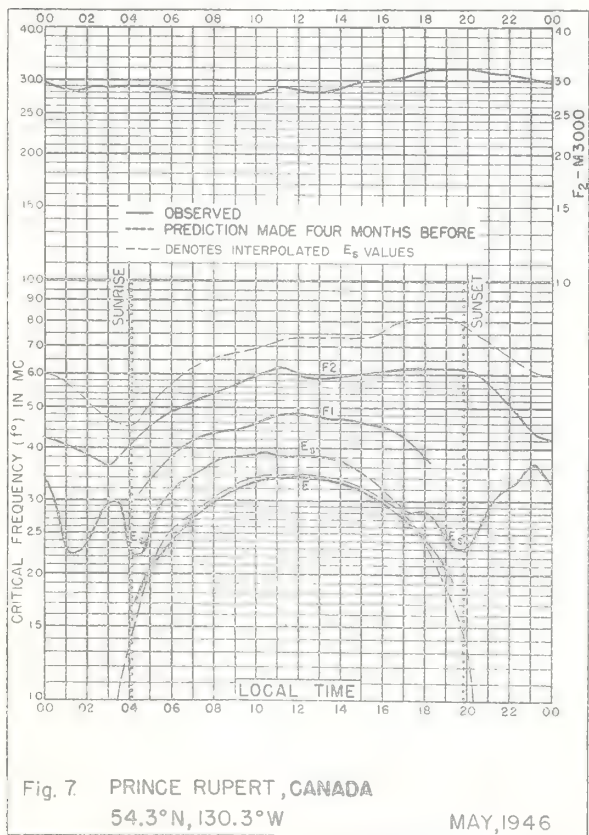
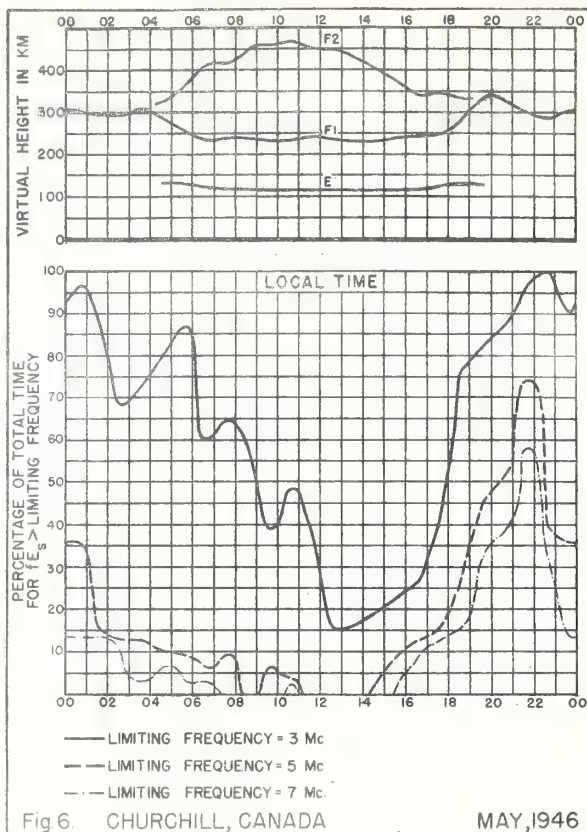
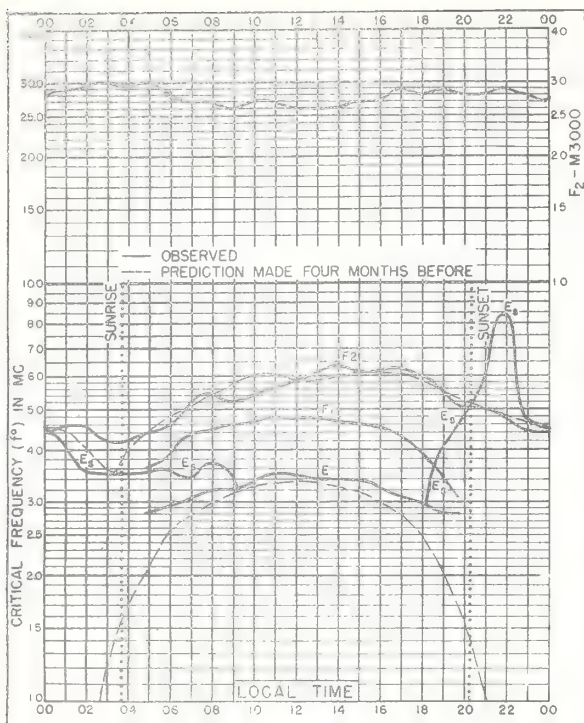
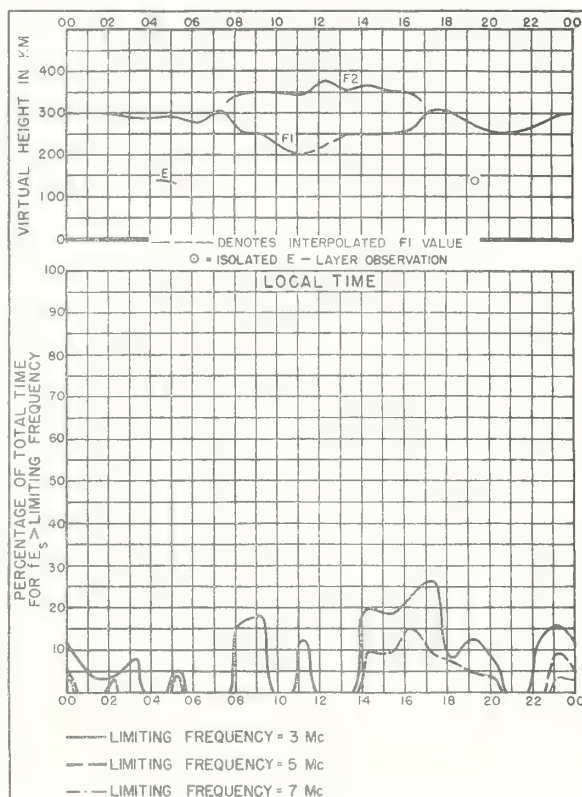
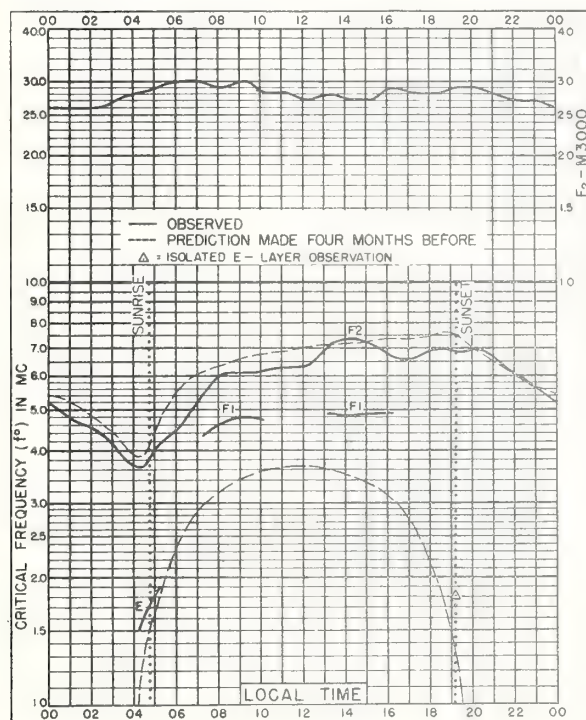
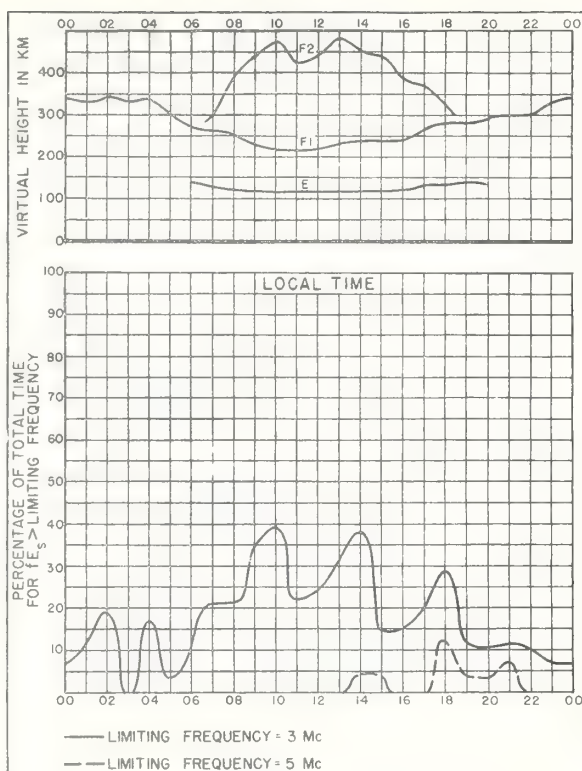
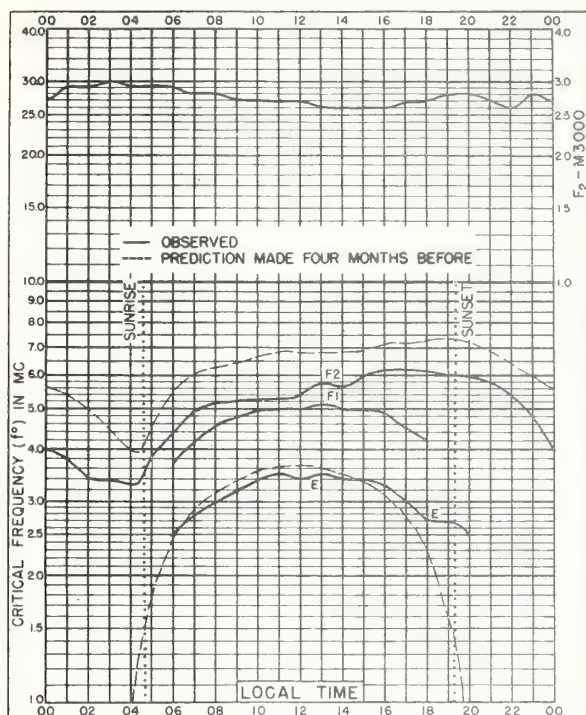


Fig. 4. FAIRBANKS, ALASKA

MAY, 1946





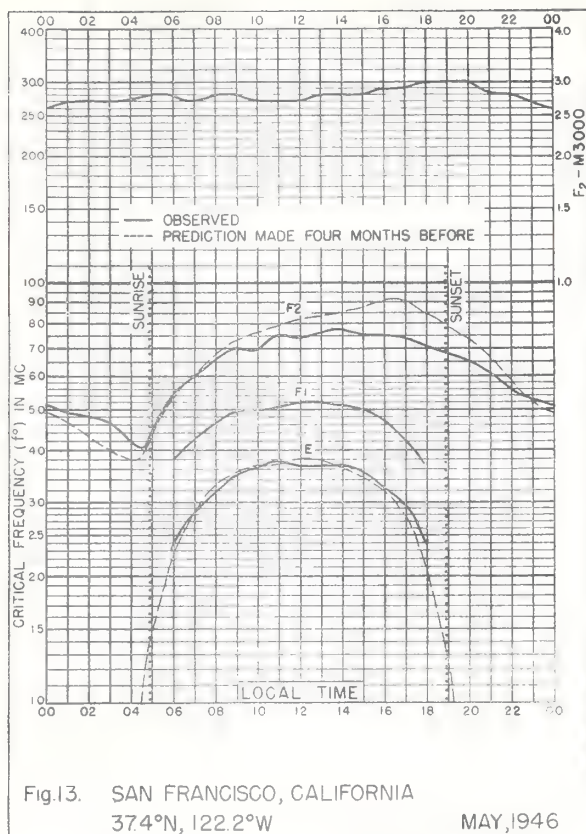


Fig.13. SAN FRANCISCO, CALIFORNIA
37.4°N, 122.2°W

MAY, 1946

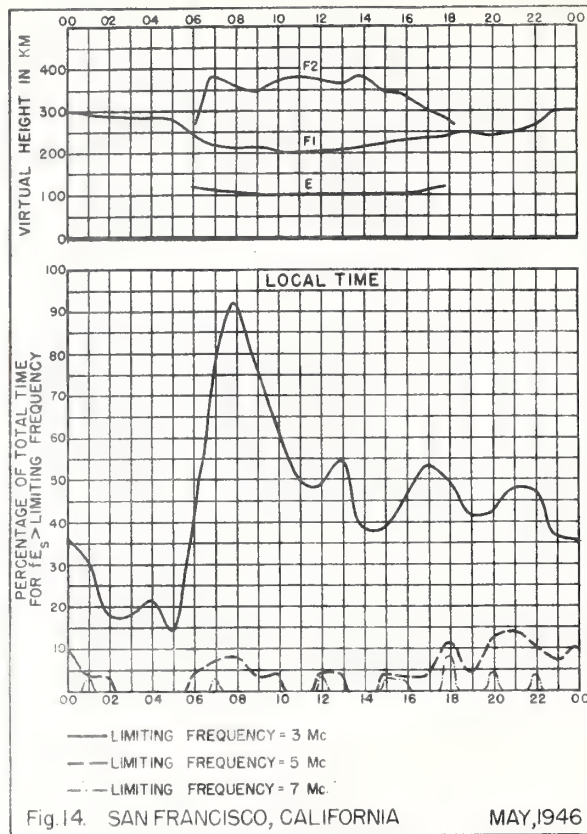


Fig.14. SAN FRANCISCO, CALIFORNIA

MAY, 1946

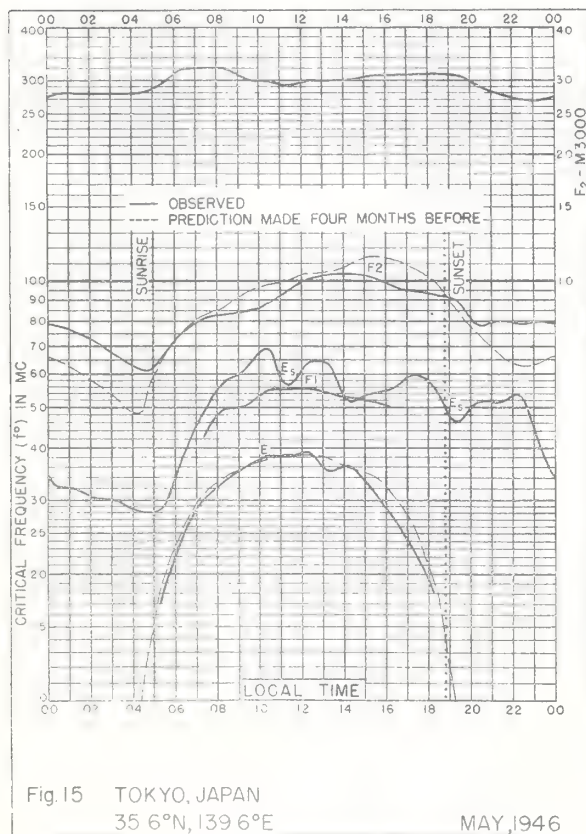


Fig.15. TOKYO, JAPAN
35.6°N, 139.6°E

MAY, 1946

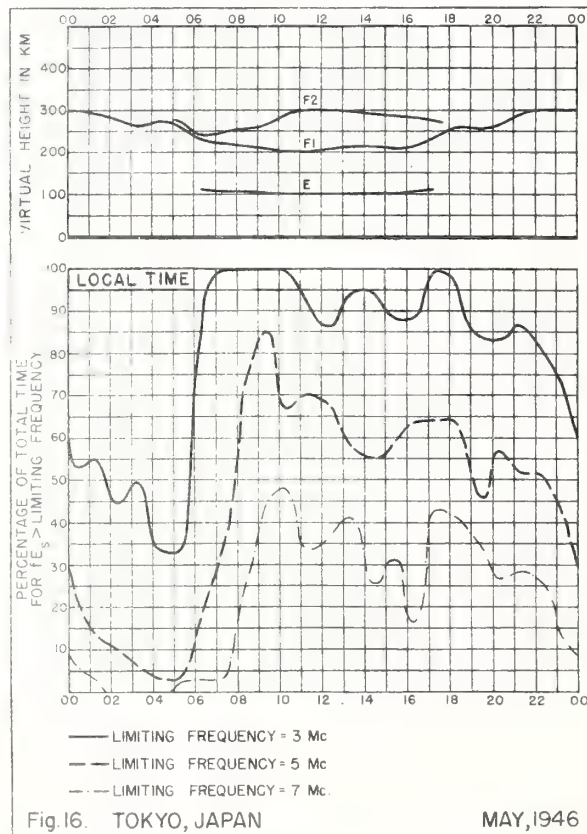


Fig.16. TOKYO, JAPAN

MAY, 1946

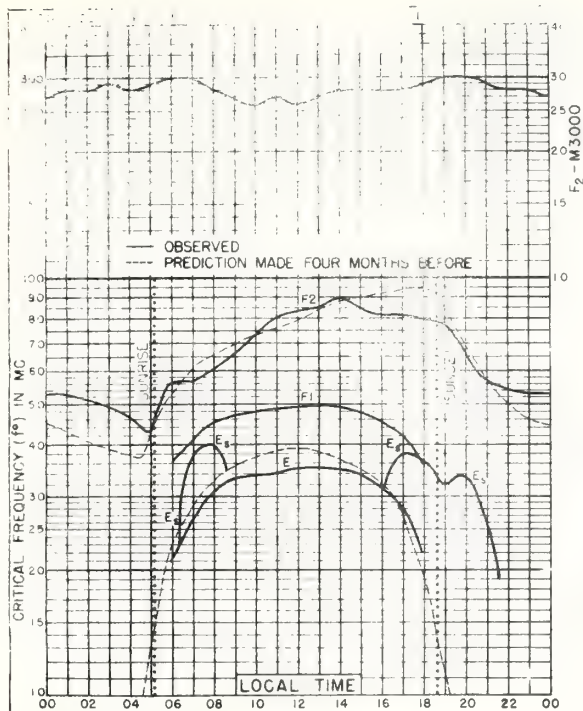


Fig. 17. BATON ROUGE, LOUISIANA
30.5°N, 91.2°W

MAY, 1946

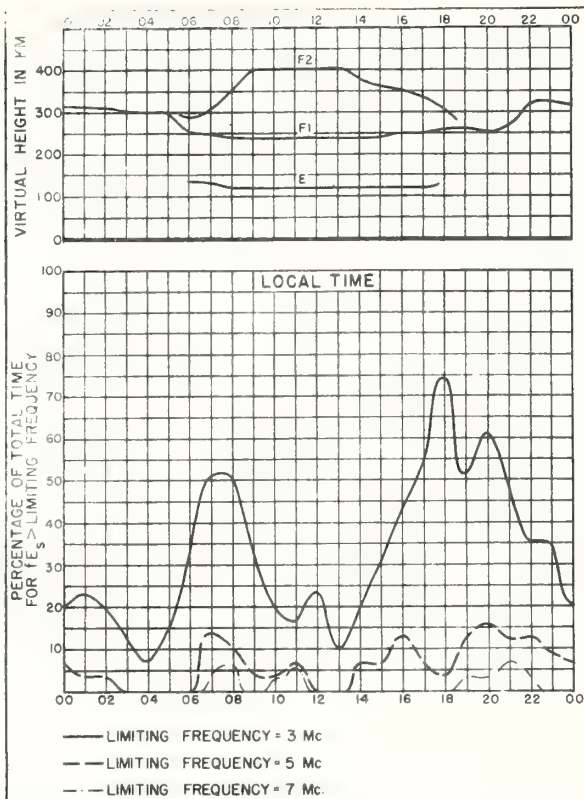


Fig. 18. BATON ROUGE, LOUISIANA

MAY, 1946

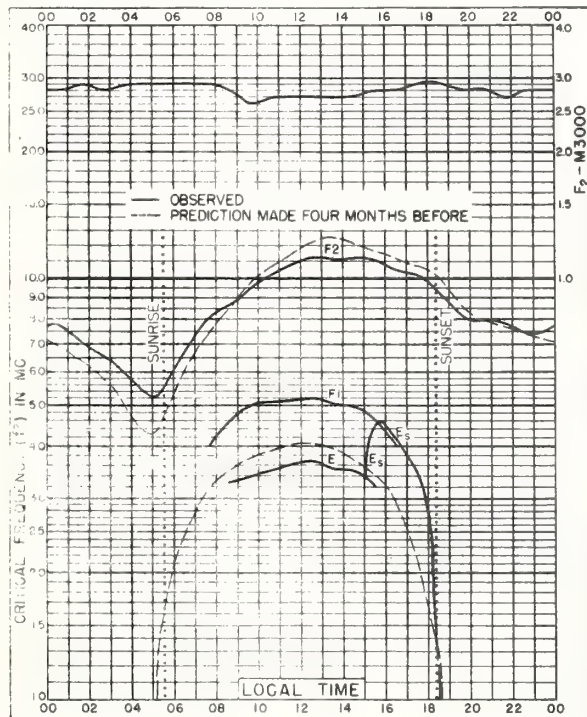


Fig. 19. SAN JUAN, PUERTO RICO
18.4°N, 66.1°W

MAY, 1946

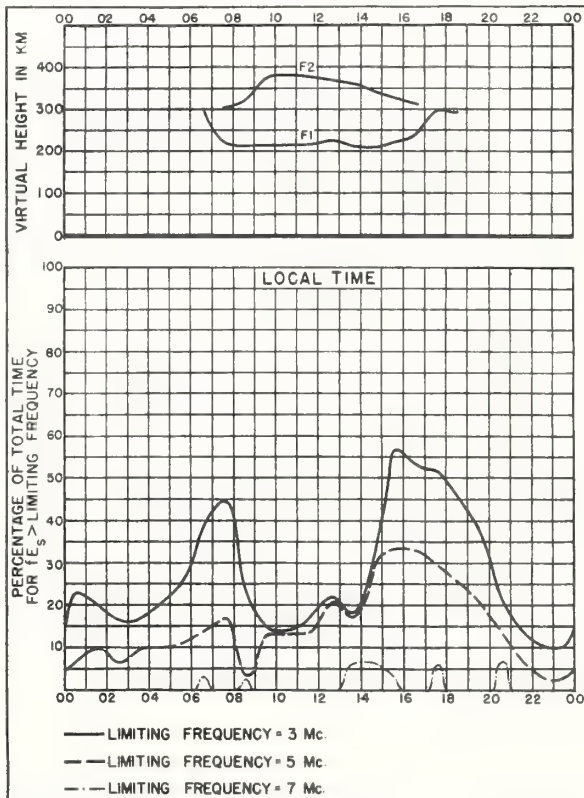
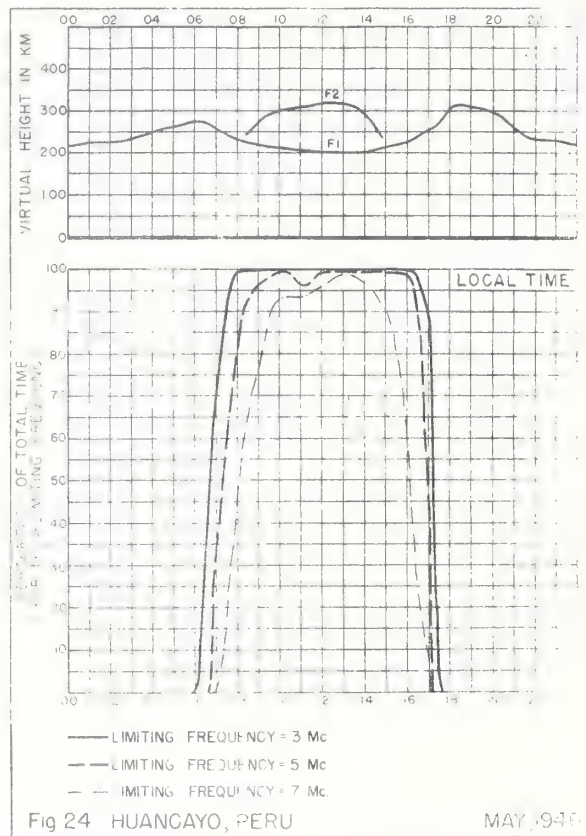
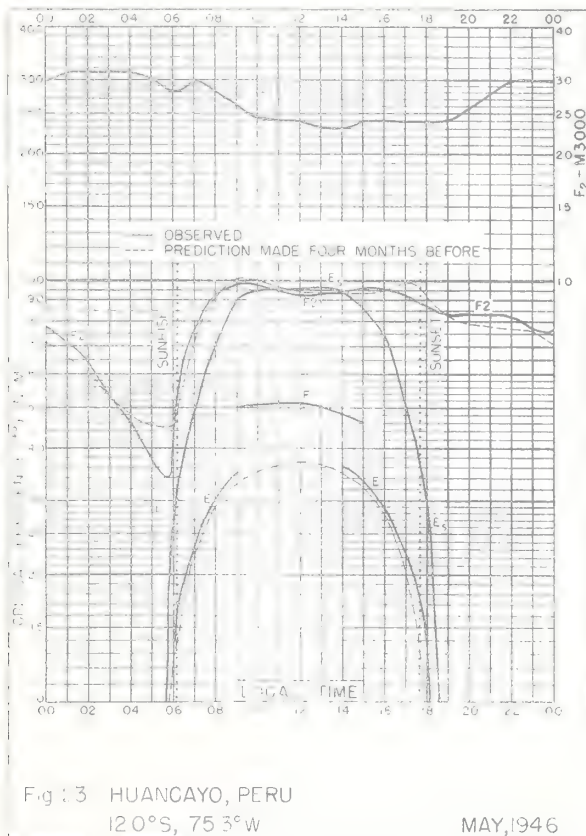
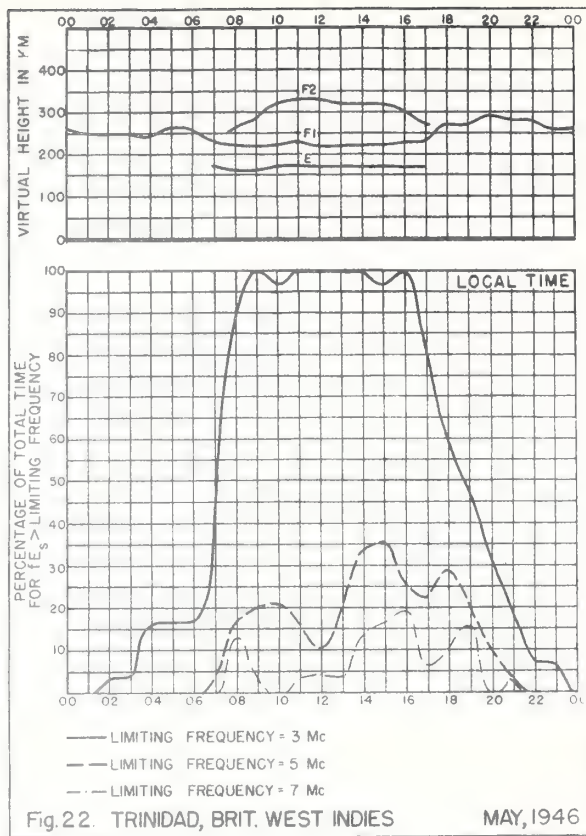
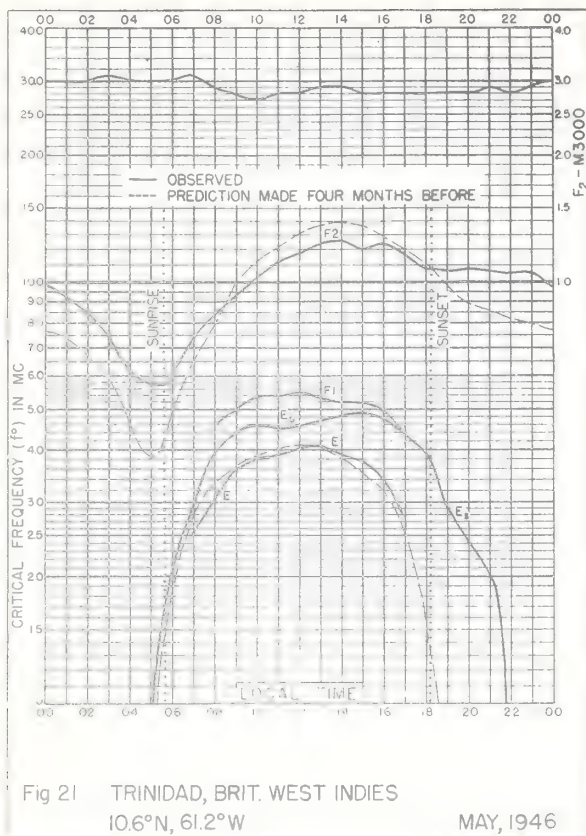


Fig. 20. SAN JUAN, PUERTO RICO

MAY, 1946



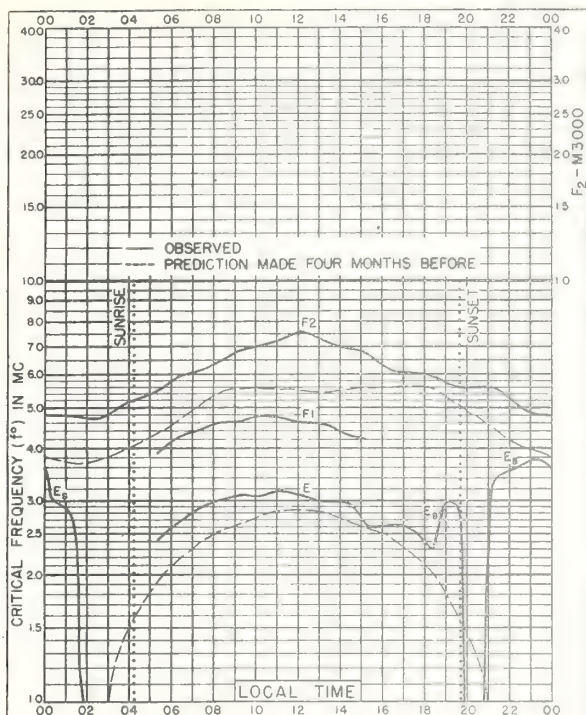


Fig. 25. TROMSØ, NORWAY
69.7°N, 18.9°E

APRIL, 1946

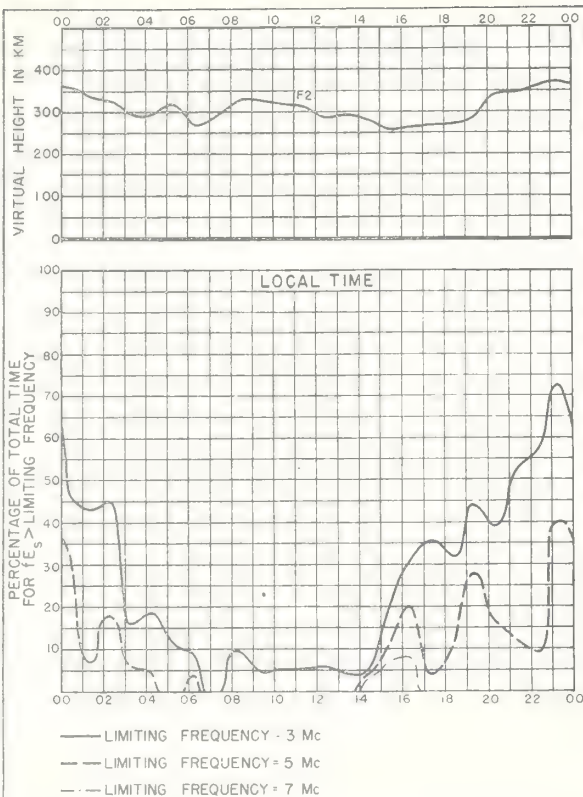


Fig. 26. TROMSØ, NORWAY

APRIL, 1946

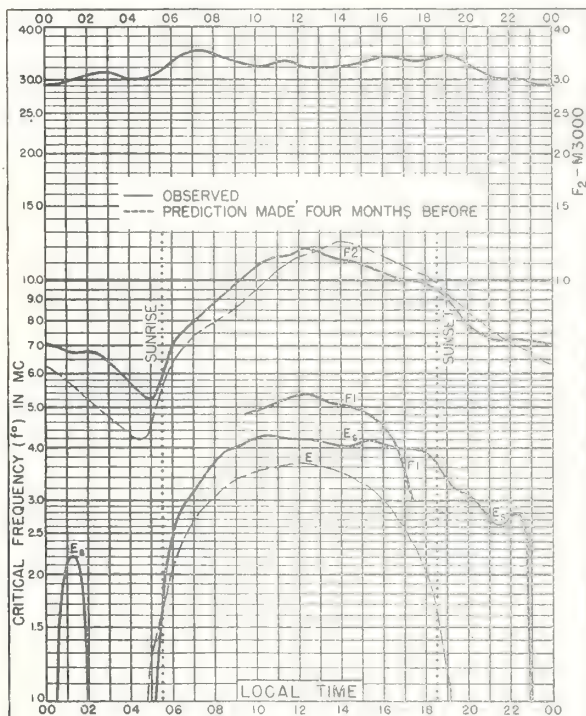


Fig. 27. TOKYO, JAPAN
35.6°N, 139.6°E

APRIL, 1946

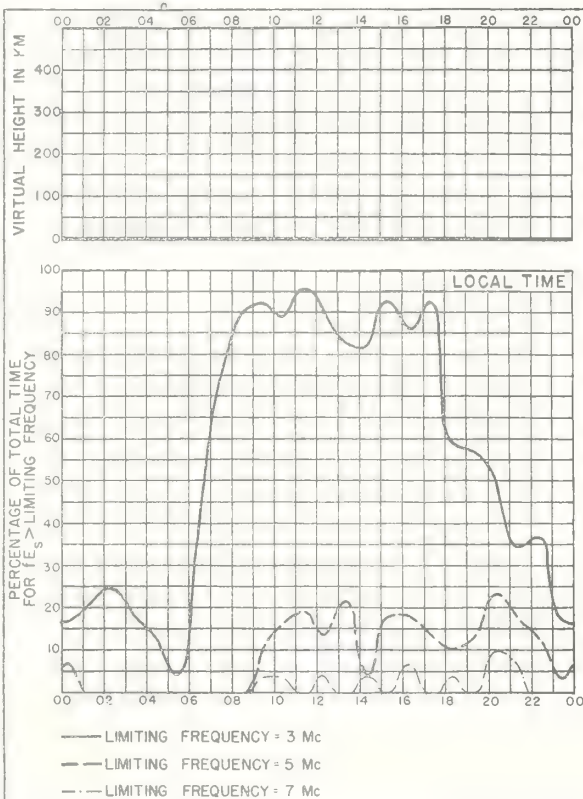
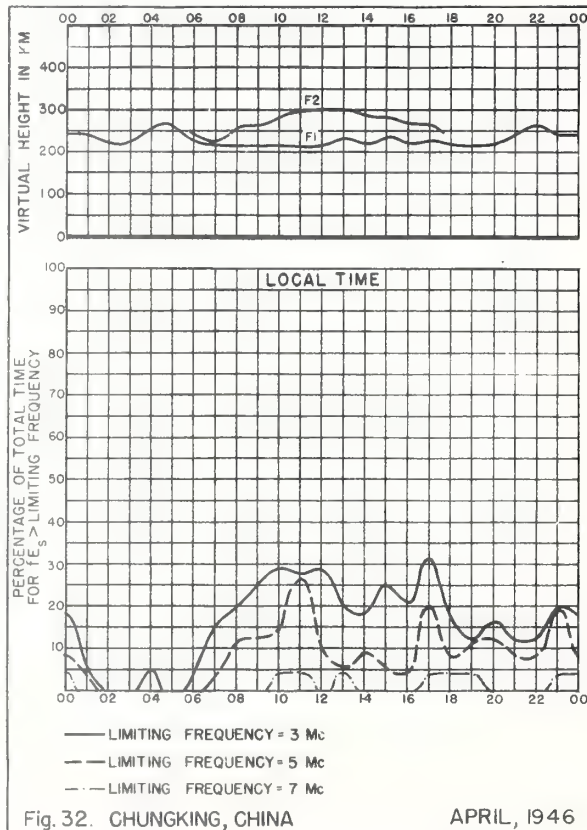
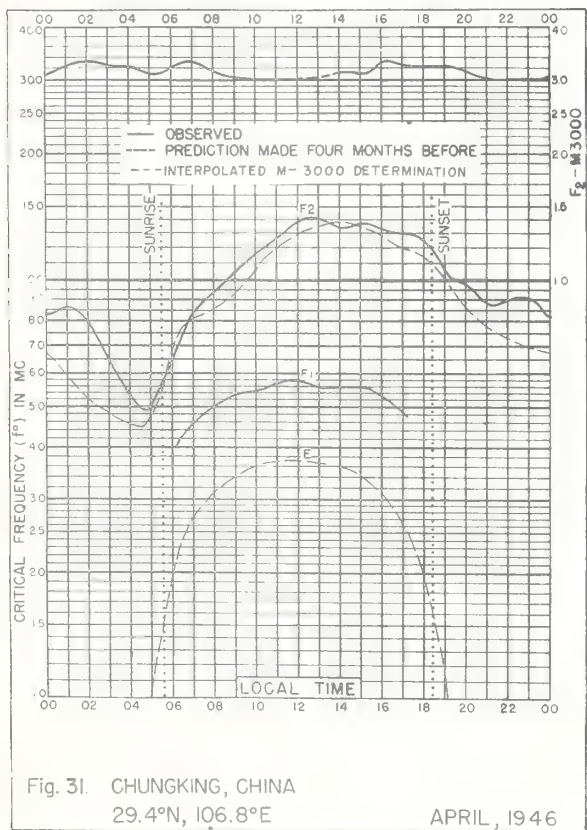
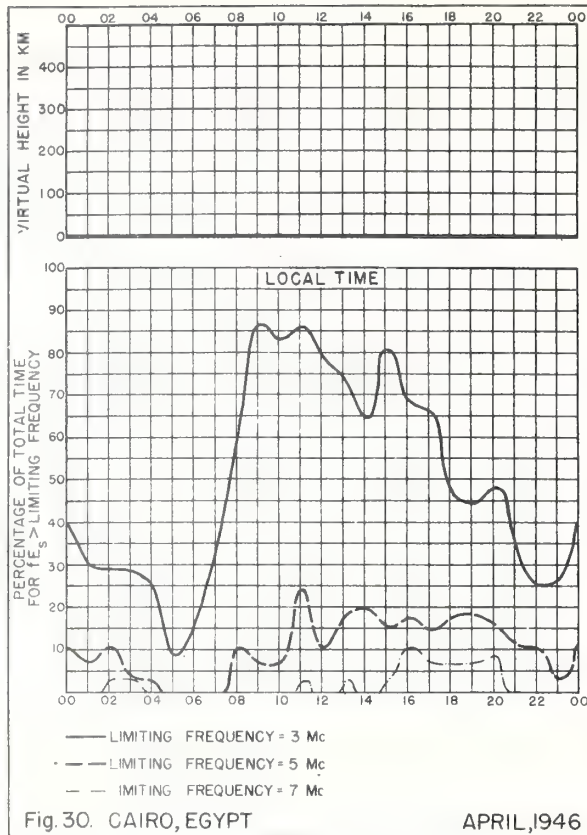
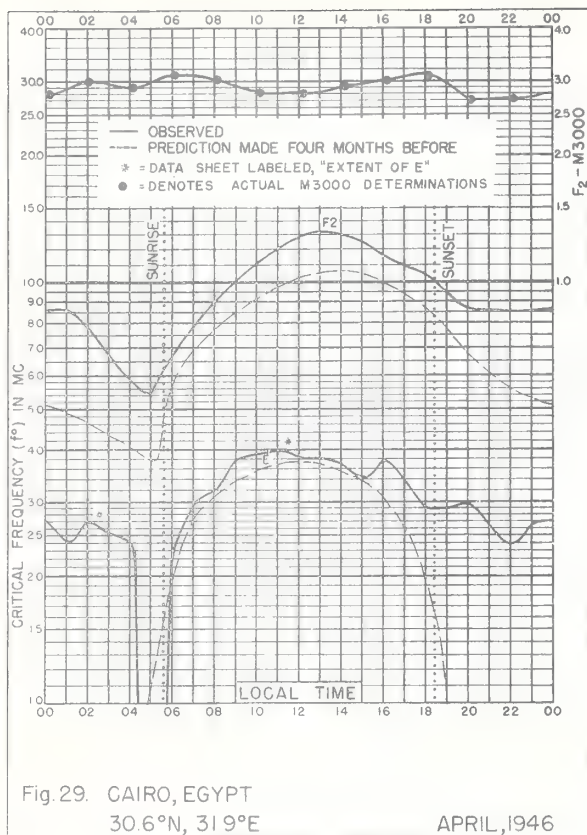
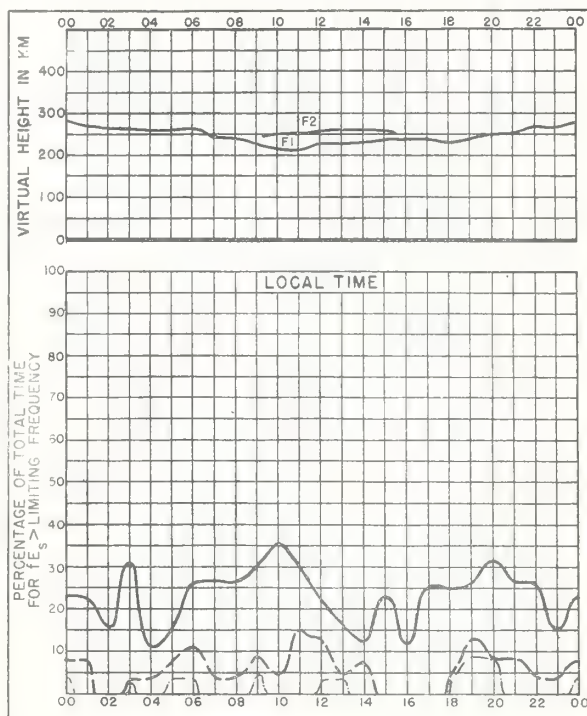
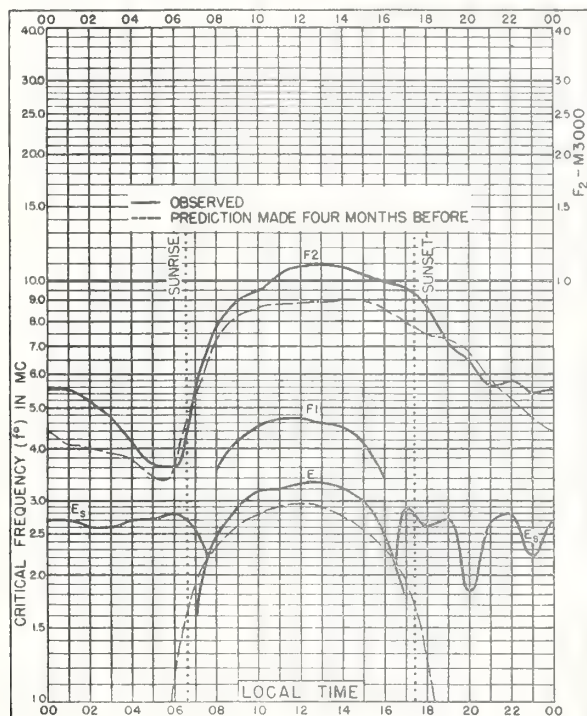
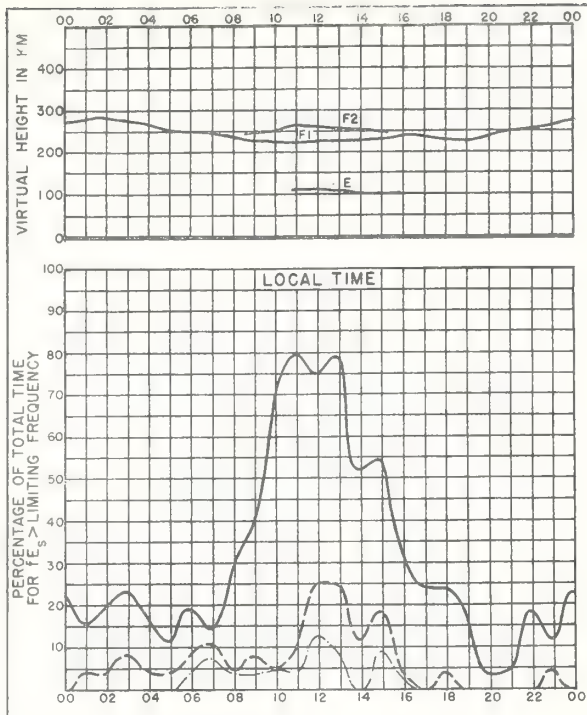
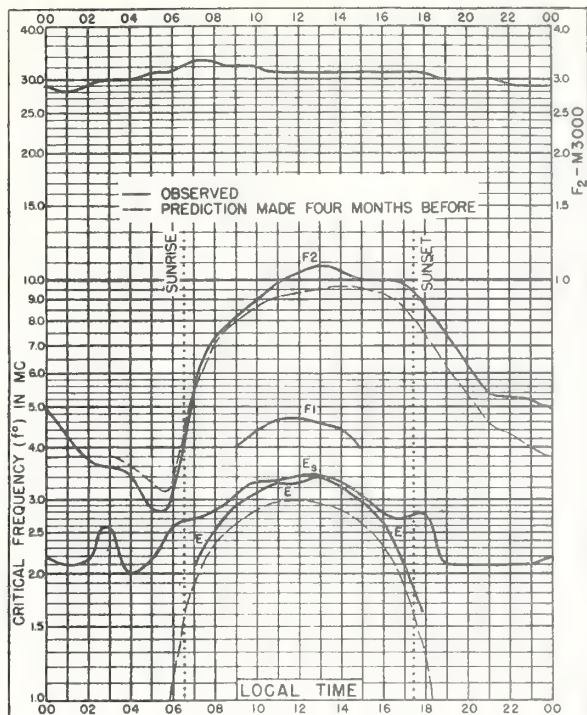


Fig. 28. TOKYO, JAPAN

APRIL, 1946





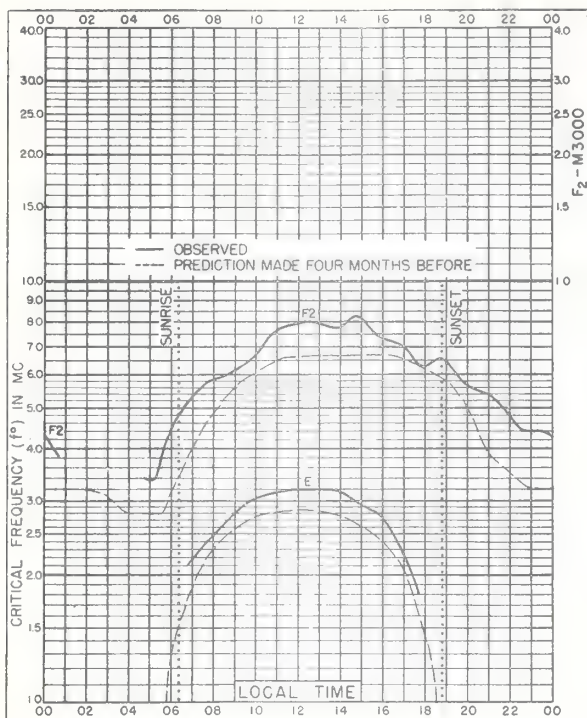


Fig. 37. OSLO, NORWAY
59°N, 110°E

MARCH, 1946

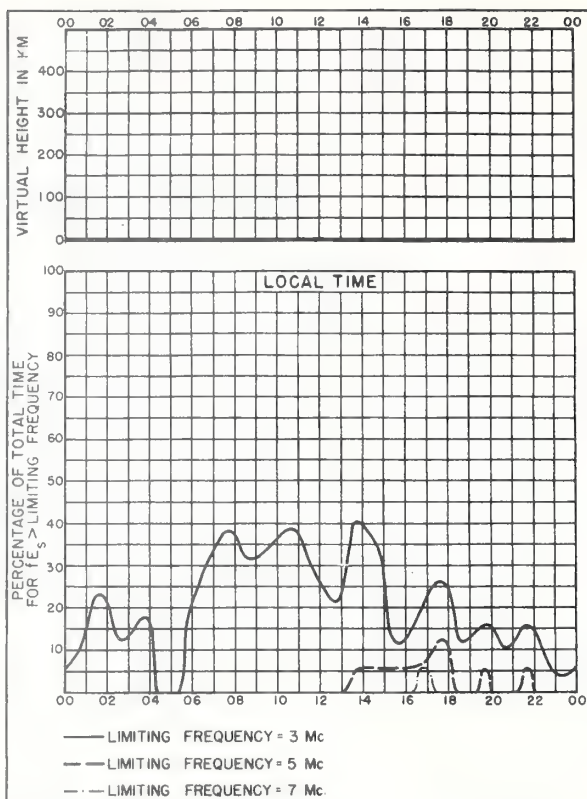


Fig. 38. OSLO, NORWAY

MARCH, 1946

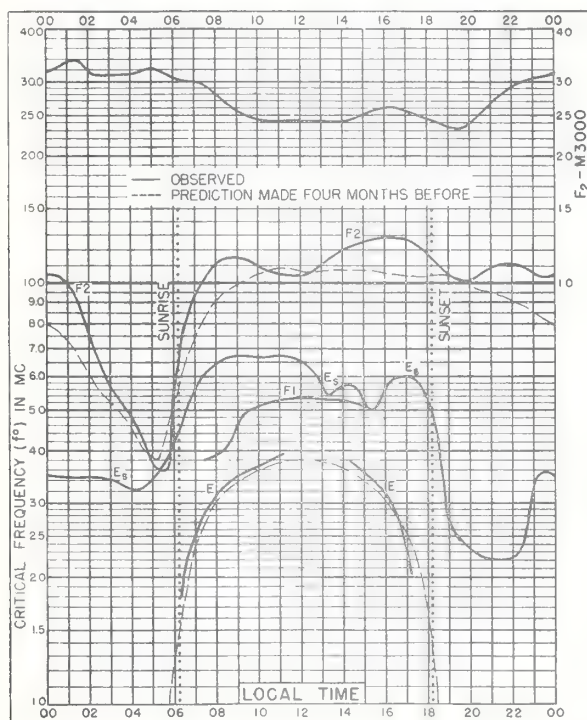


Fig. 39. LEYTE, PHILIPPINE IS
11°N, 125°E

MARCH, 1946

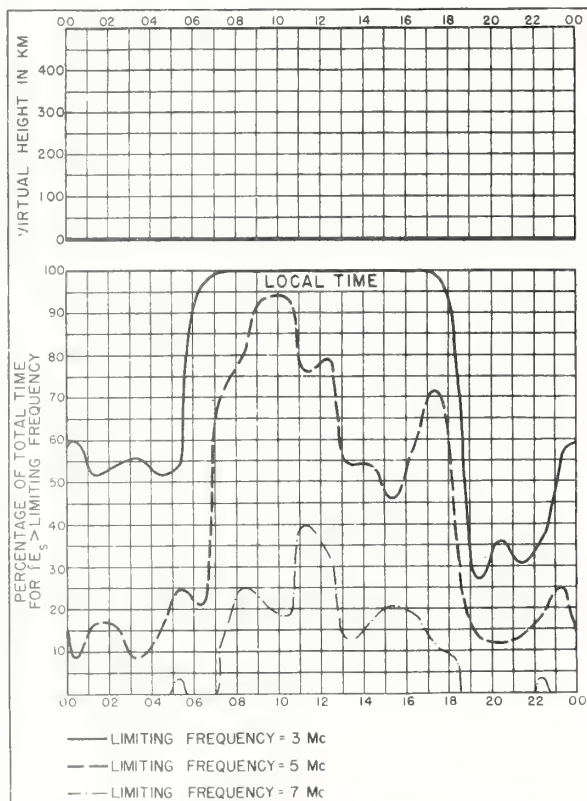


Fig. 40. LEYTE, PHILIPPINE IS.

MARCH, 1946

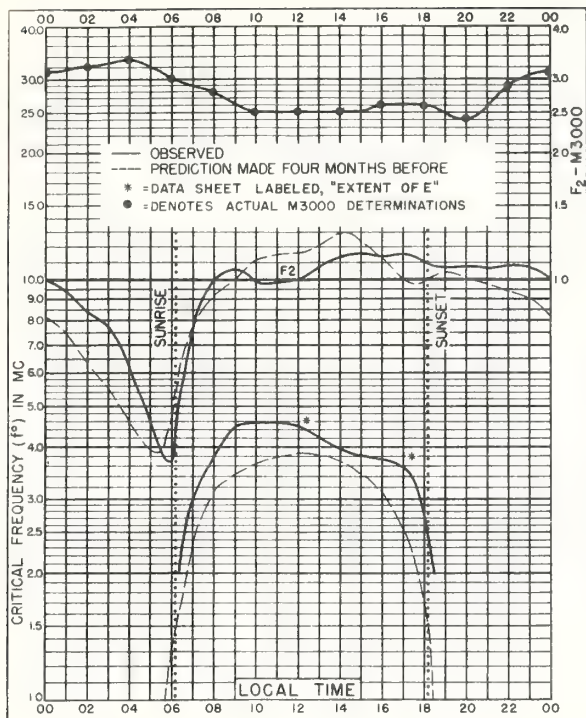


Fig. 41. COLOMBO, CEYLON
6.6°N, 80.0°E

MARCH, 1946

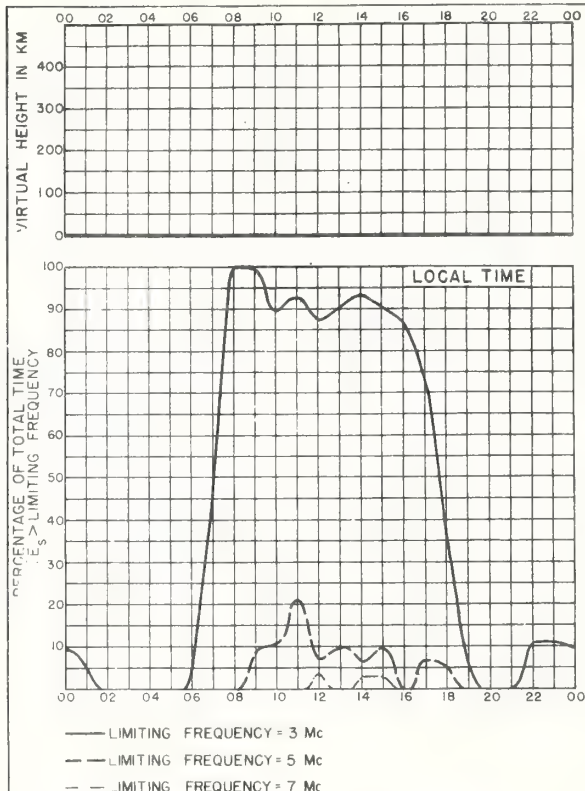


Fig. 42. COLOMBO, CEYLON

MARCH, 1946

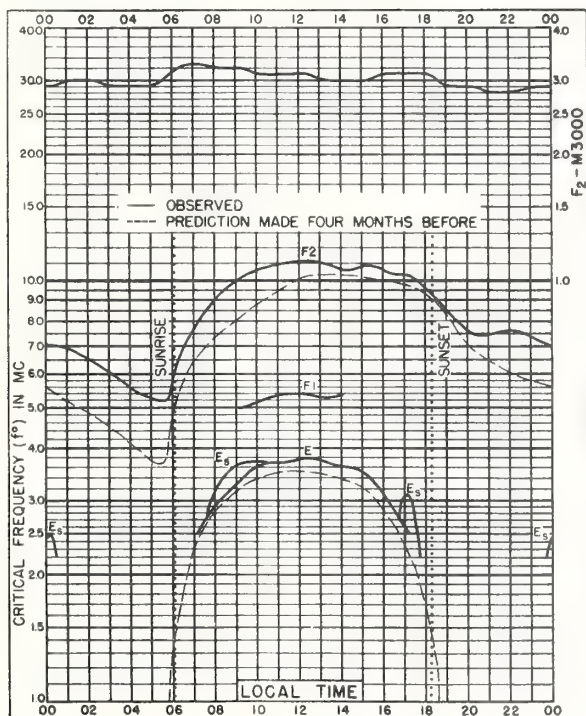


Fig. 43. BRISBANE, AUSTRALIA
27.5°S, 153.0°E

MARCH, 1946

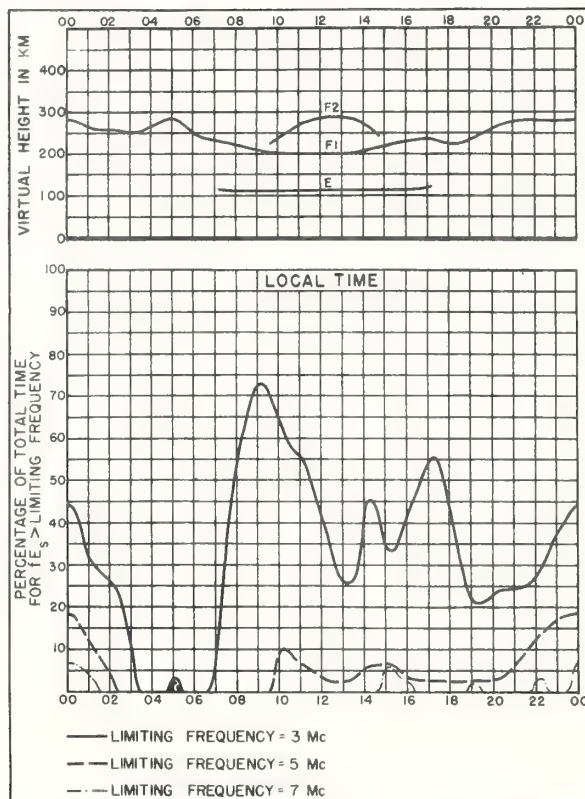
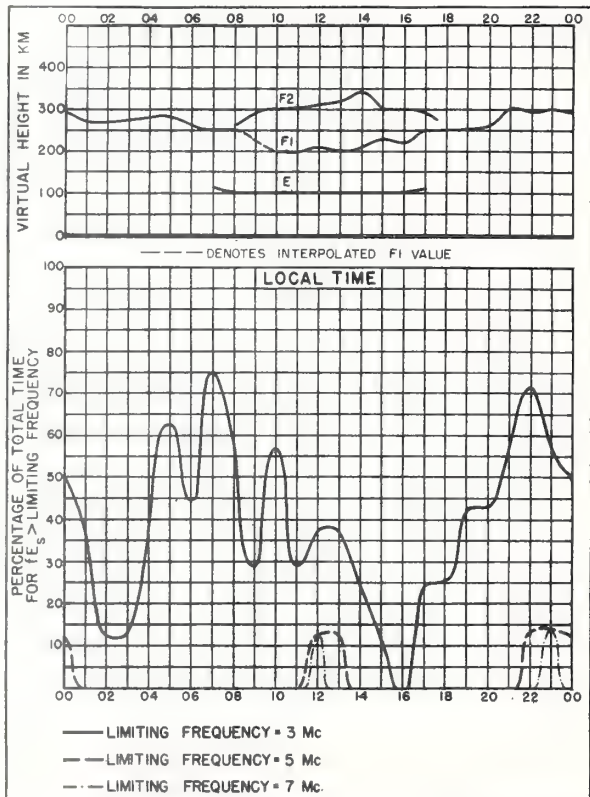
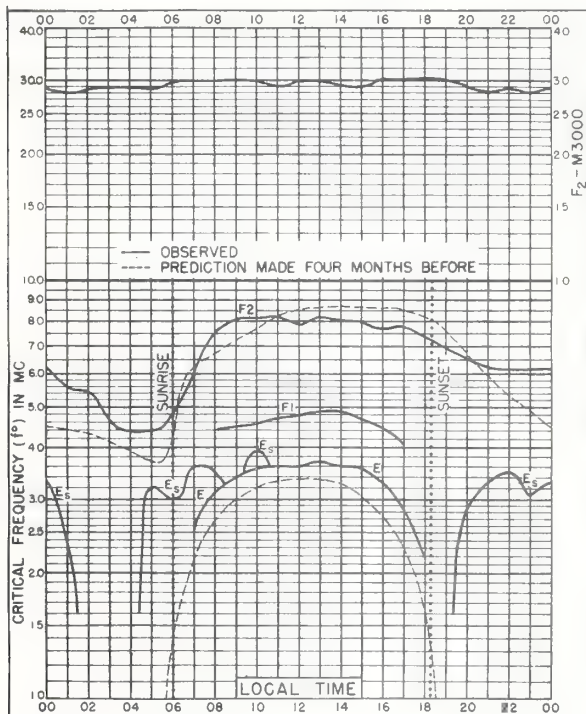
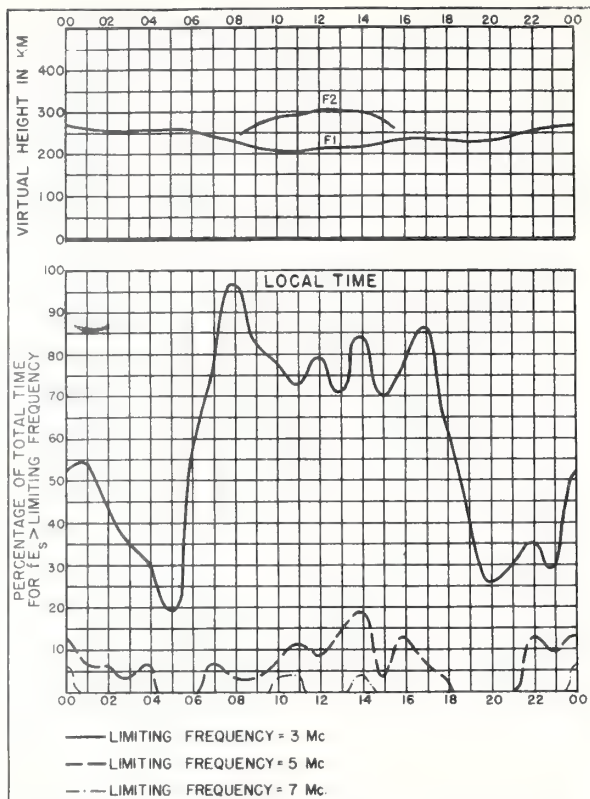
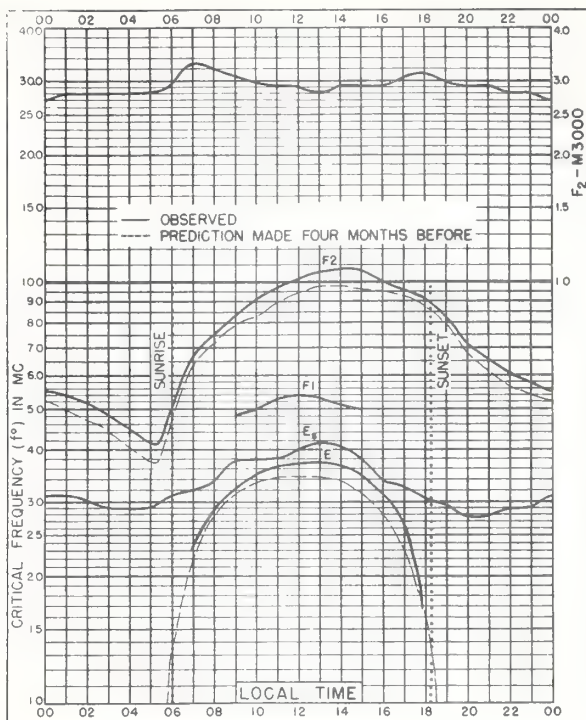


Fig. 44. BRISBANE, AUSTRALIA

MARCH, 1946



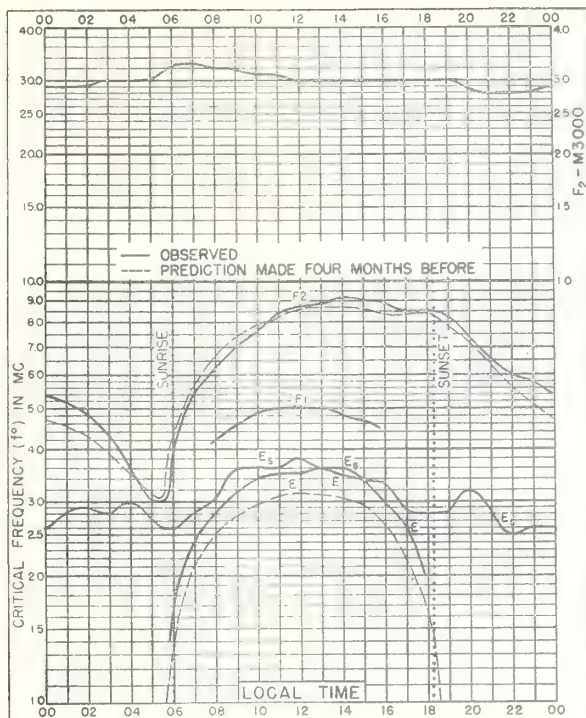


Fig.49. HOBART, TASMANIA
42.8°S, 147.4°E

MARCH, 1946

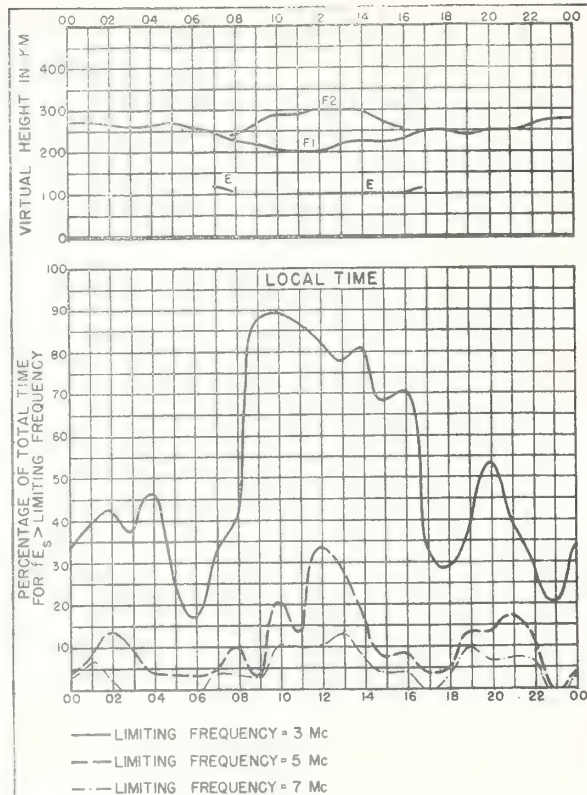


Fig.50. HOBART, TASMANIA

MARCH, 1946

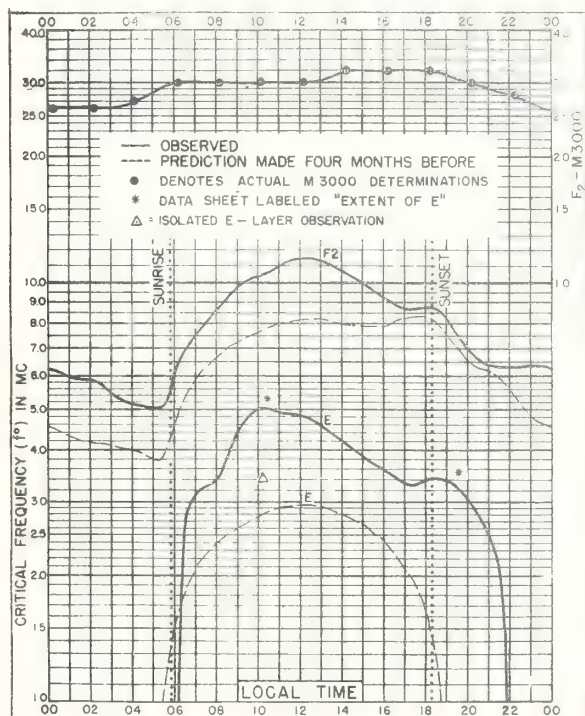


Fig.51. FALKLAND IS.
51.7°S, 57.7°W

MARCH, 1946

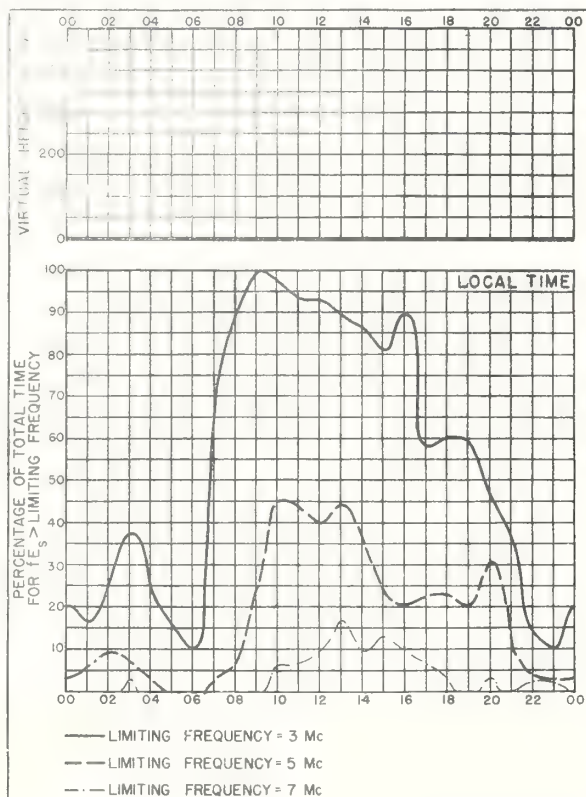
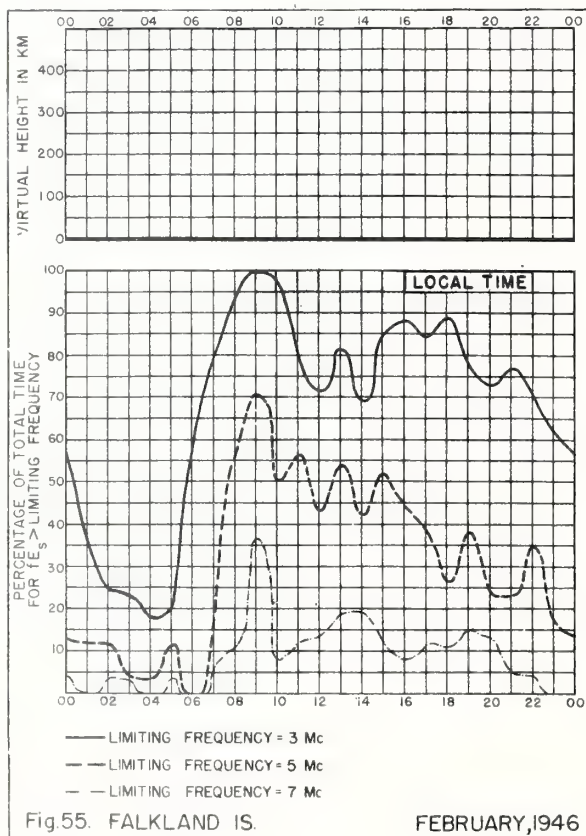
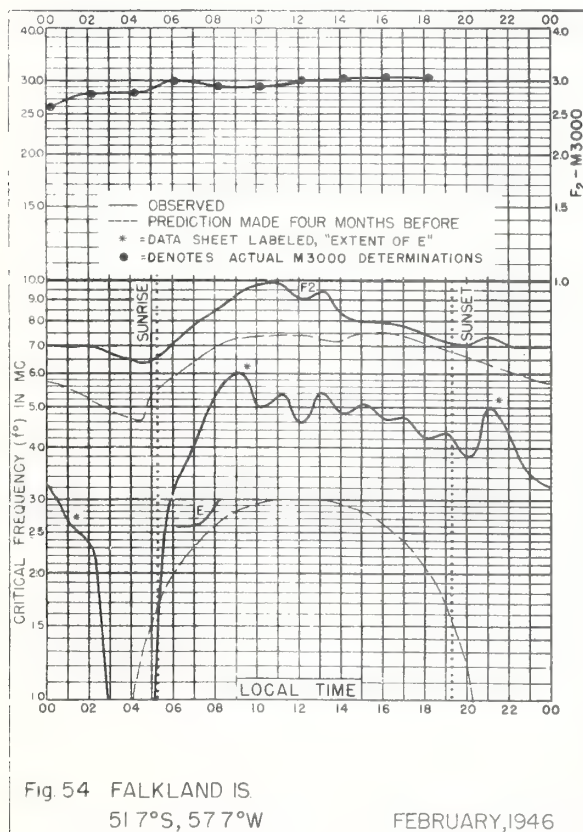
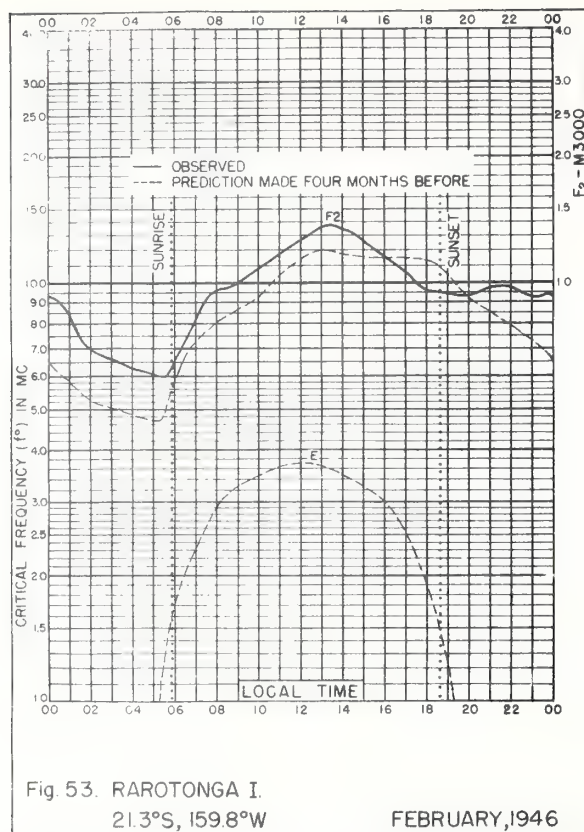
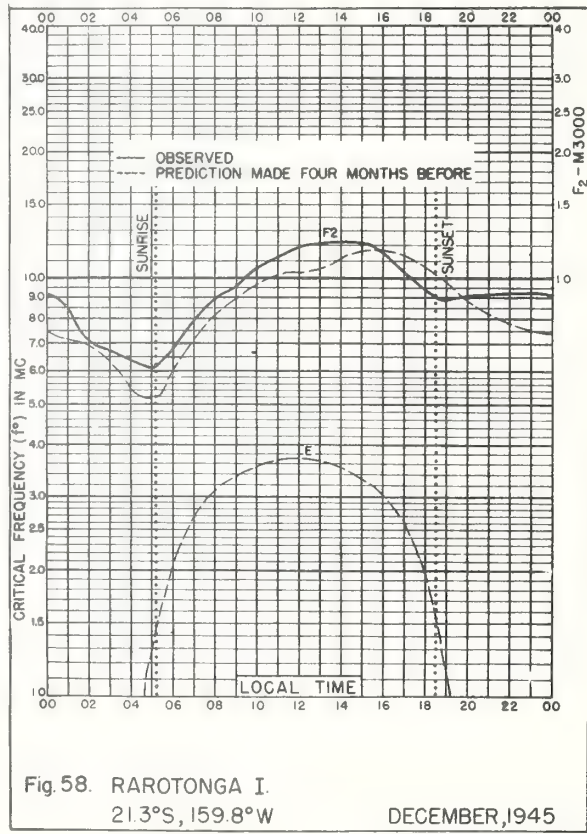
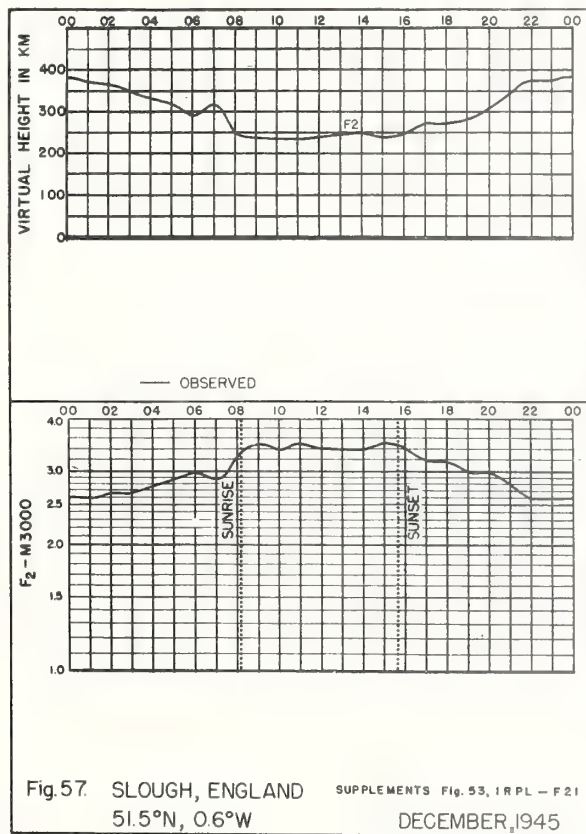
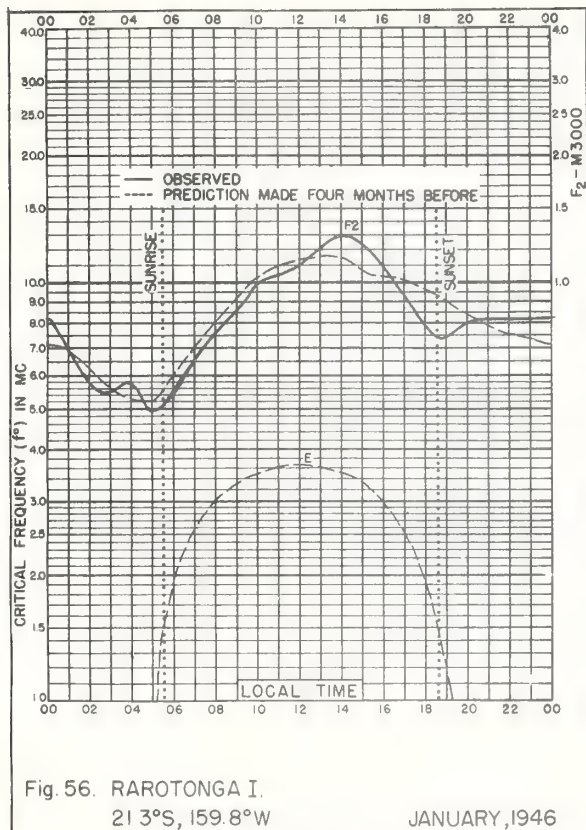
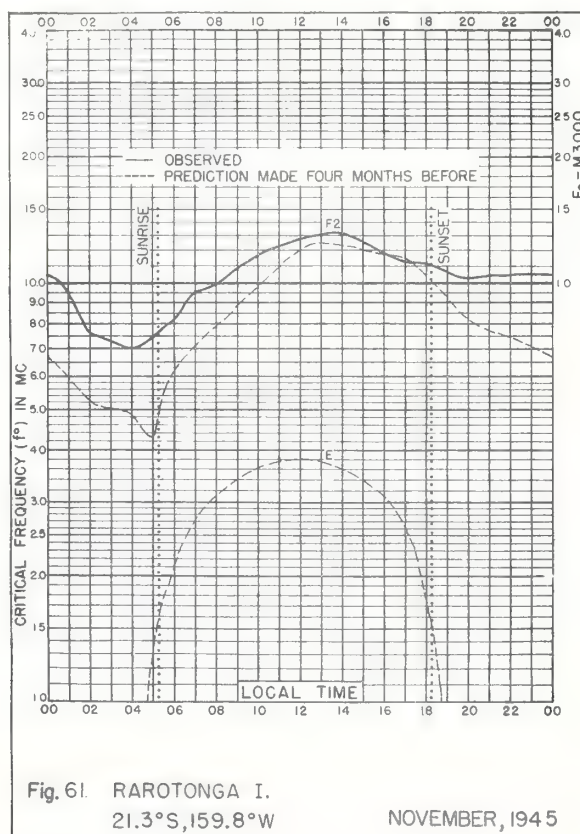
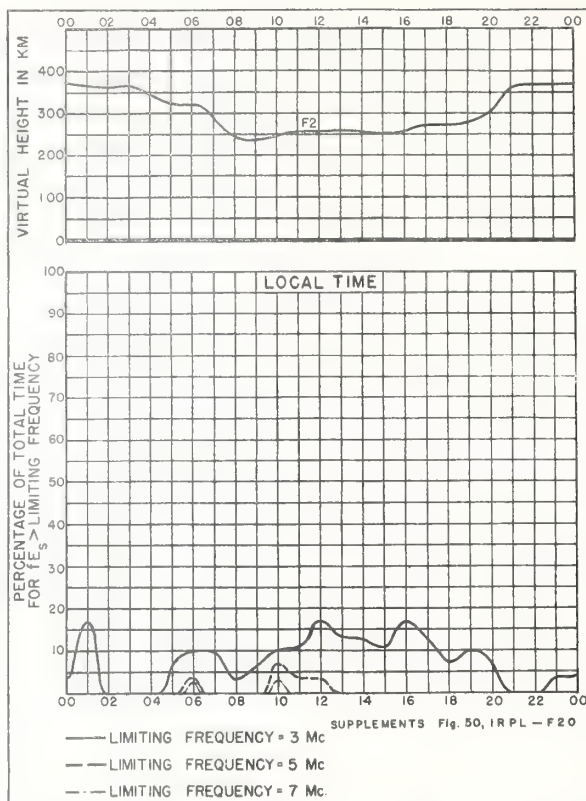
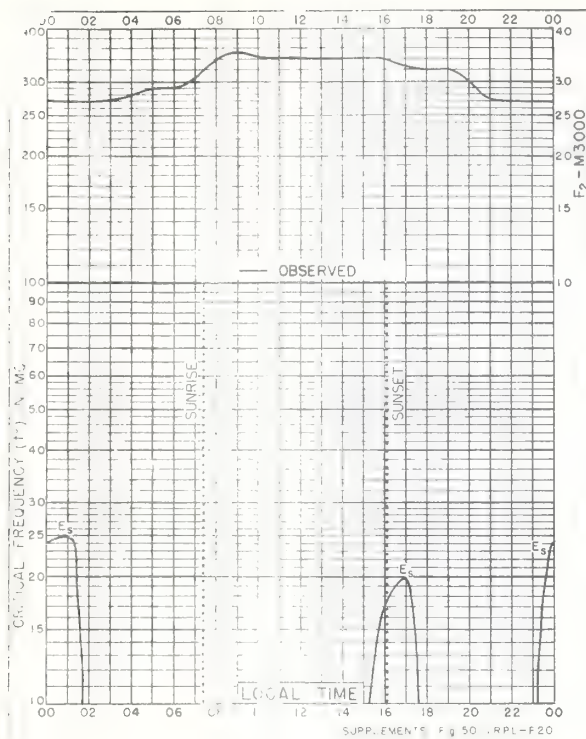


Fig.52. FALKLAND IS.

MARCH, 1946







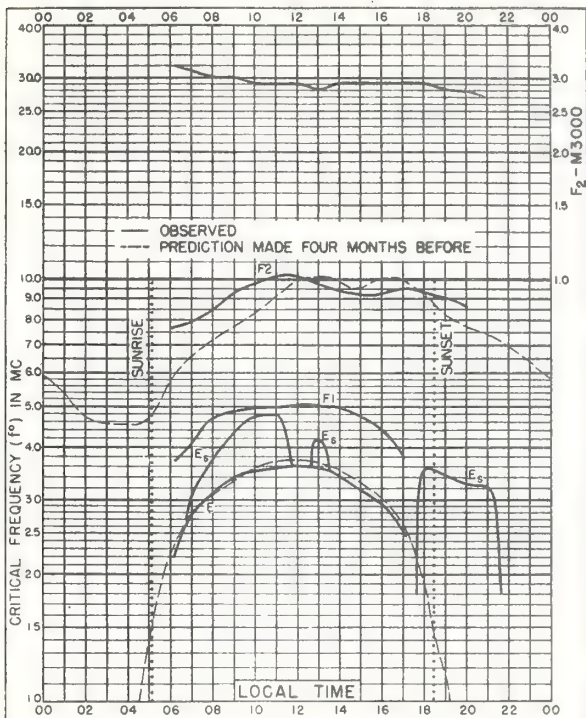


Fig. 62. KERMADEC IS.
29.2°S, 177.9°W

NOVEMBER, 1945

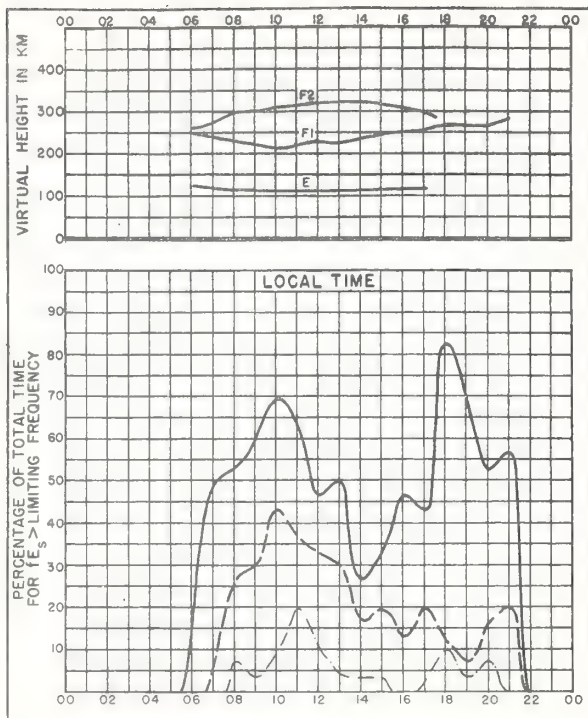


Fig. 63. KERMADEC IS

NOVEMBER, 1945

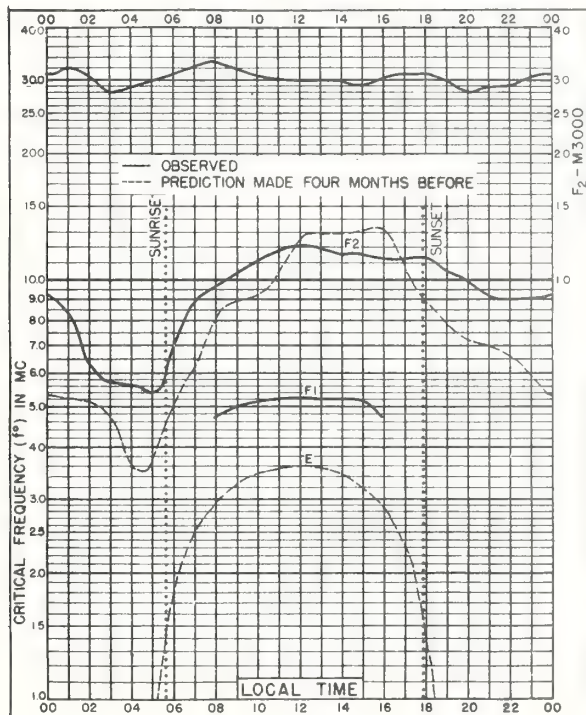


Fig. 64. RAROTONGA I.
21.3°S, 159°W

OCTOBER, 1945

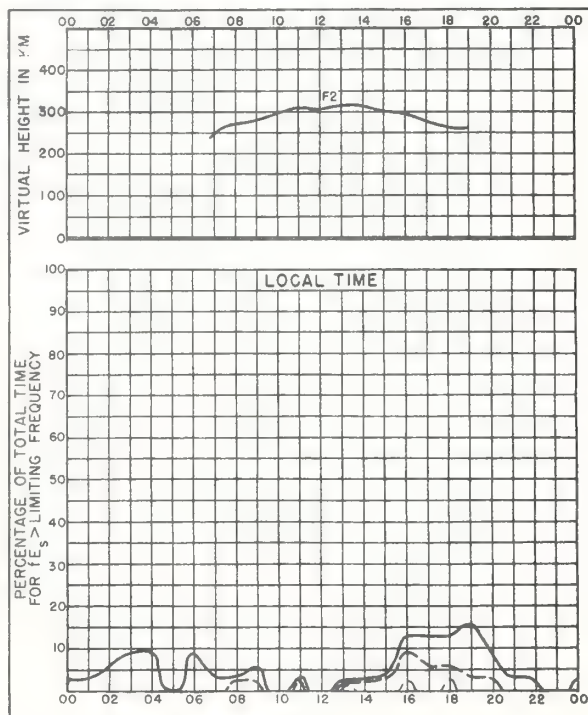


Fig. 65. RAROTONGA I

OCTOBER, 1945

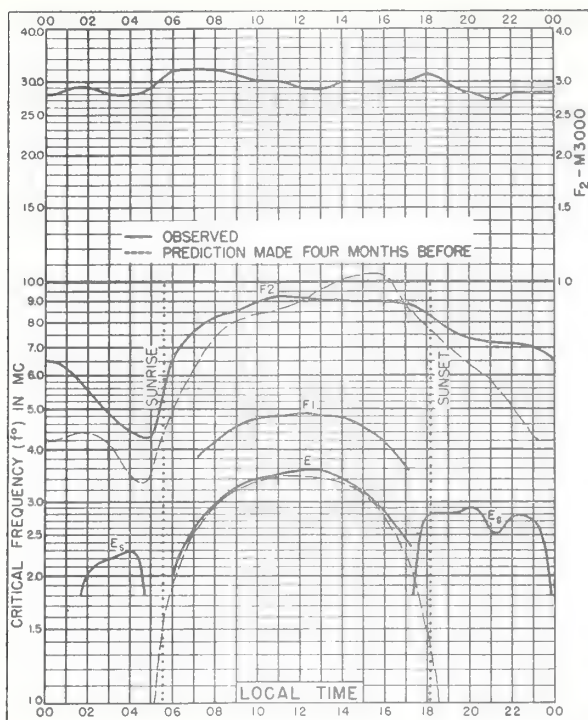


Fig. 66. KERMADEC IS.
29.2°S, 177.9°W
OCTOBER, 1945

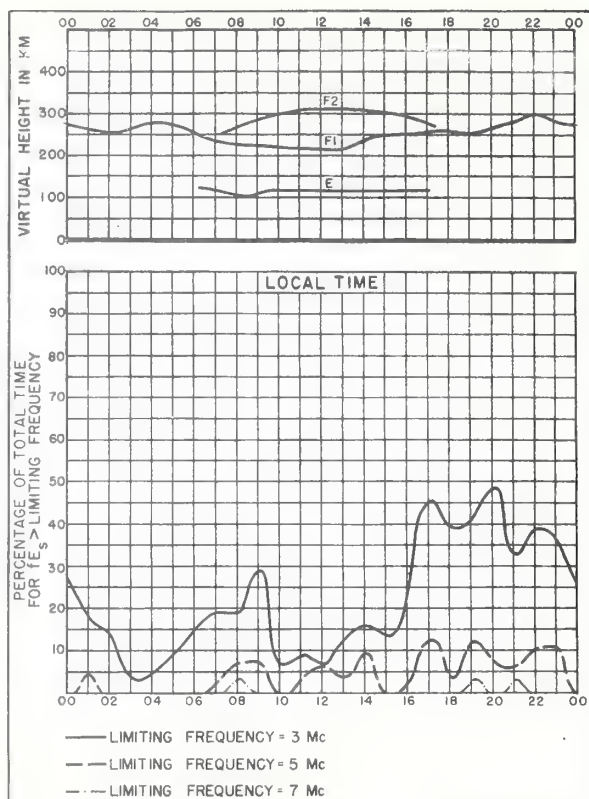


Fig. 67. KERMADEC IS
OCTOBER, 1945

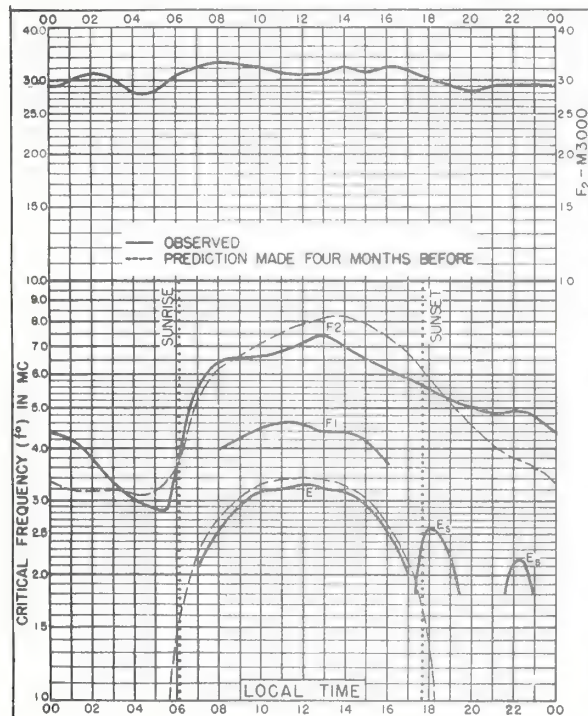


Fig. 68. KERMADEC IS.
29.2°S, 177.9°W
SEPTEMBER, 1945

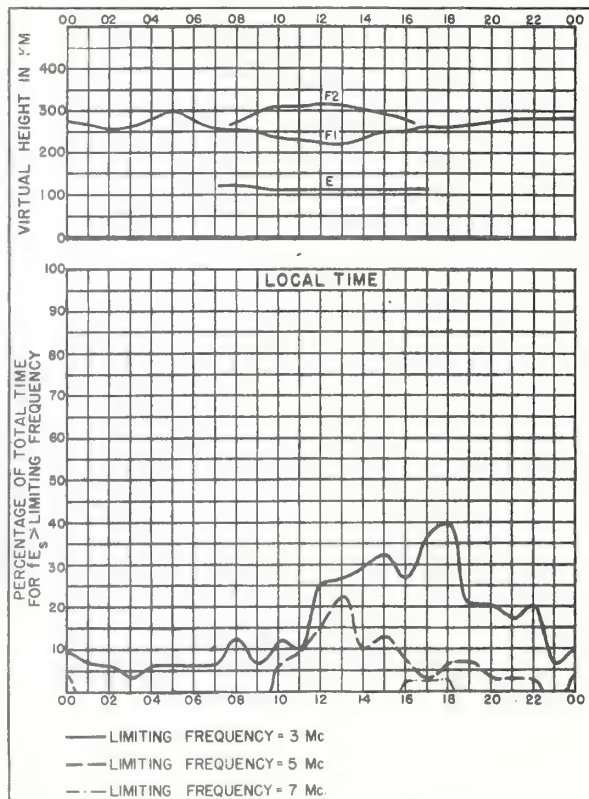


Fig. 69. KERMADEC IS.
SEPTEMBER, 1945

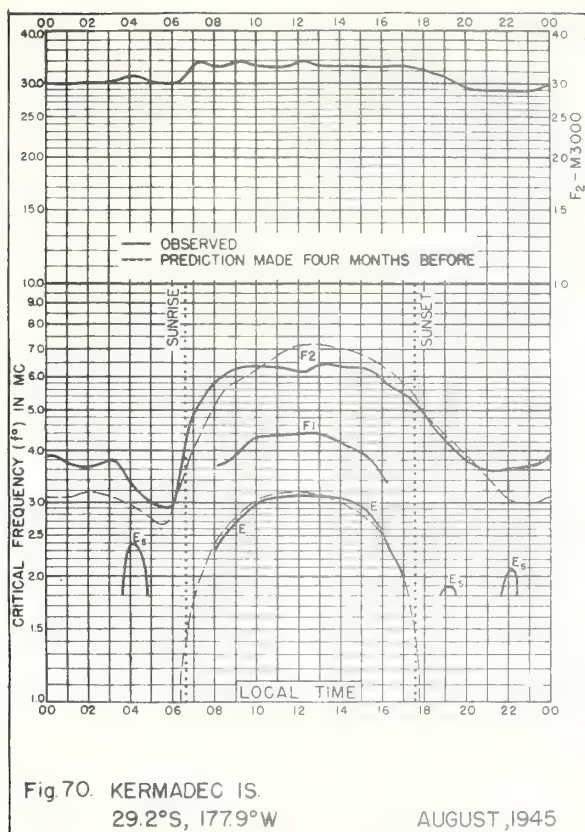


Fig.70. KERMADEC IS.
29.2°S, 177.9°W

AUGUST, 1945

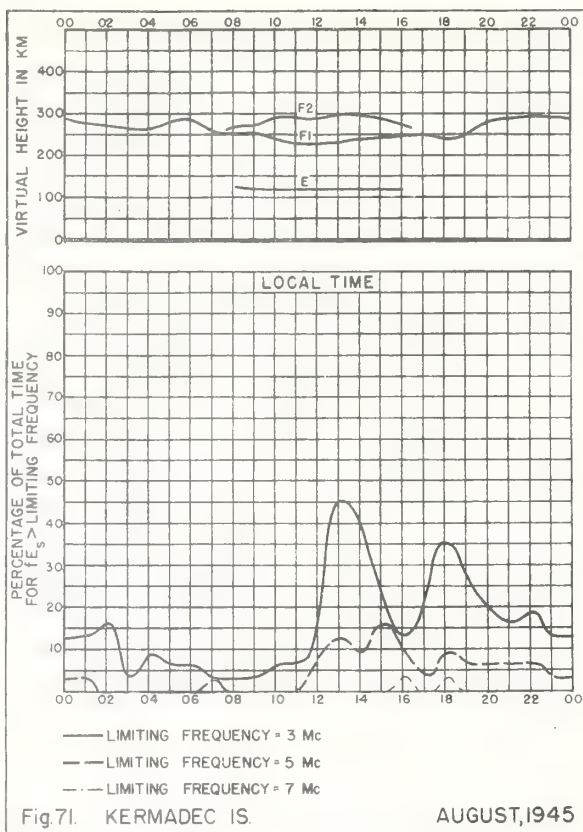


Fig.71. KERMADEC IS.

AUGUST, 1945

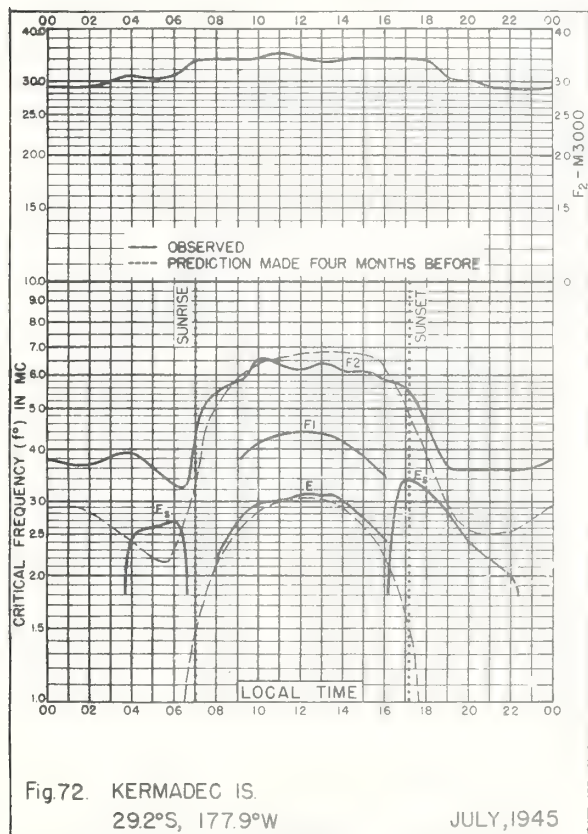


Fig.72. KERMADEC IS.
29.2°S, 177.9°W

JULY, 1945

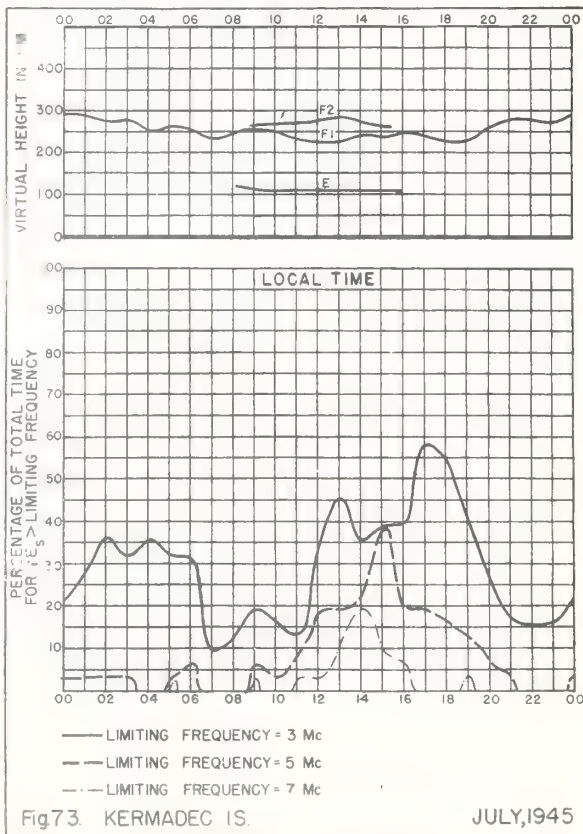


Fig.73. KERMADEC IS.

JULY, 1945

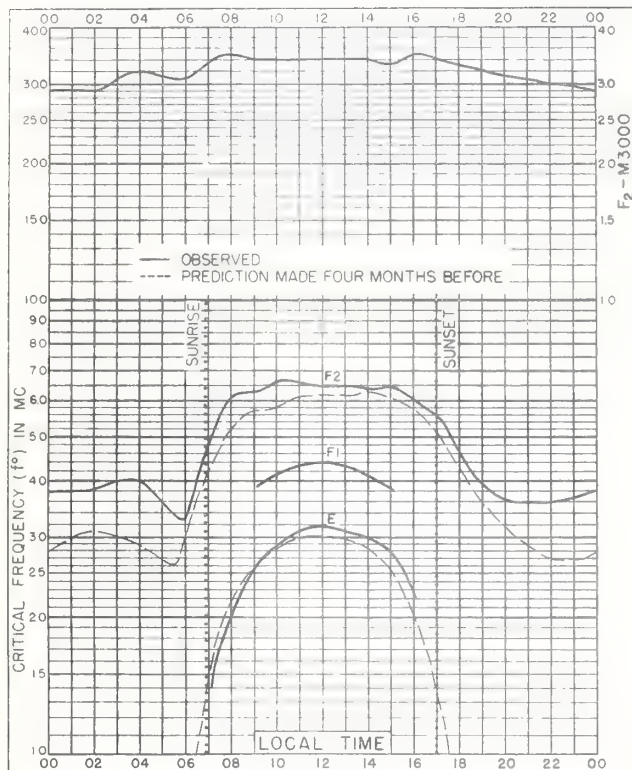


Fig. 74. KERMADEC IS
29.2°S, 177.9°W

JUNE, 1945

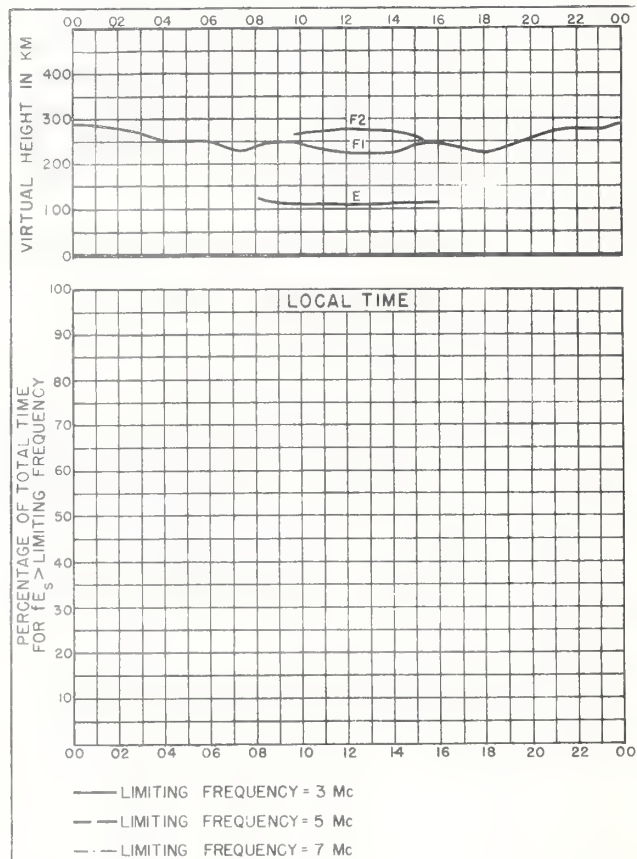
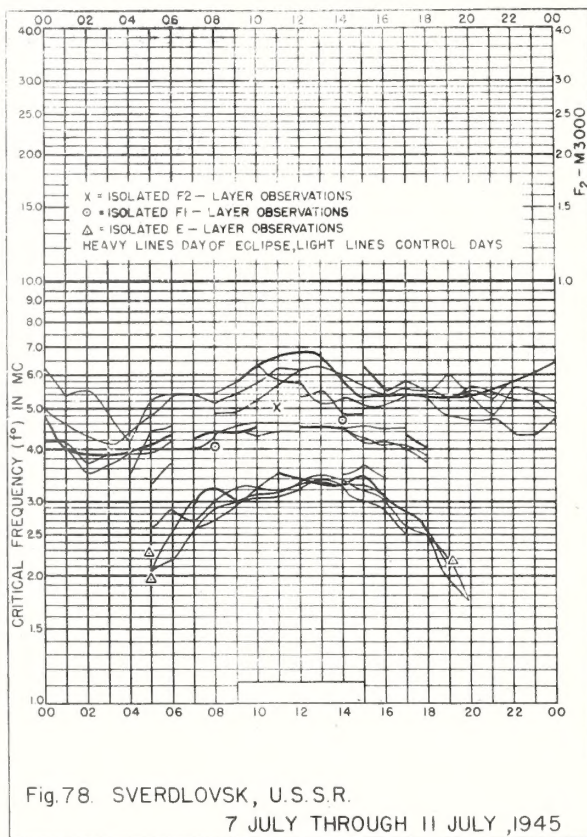
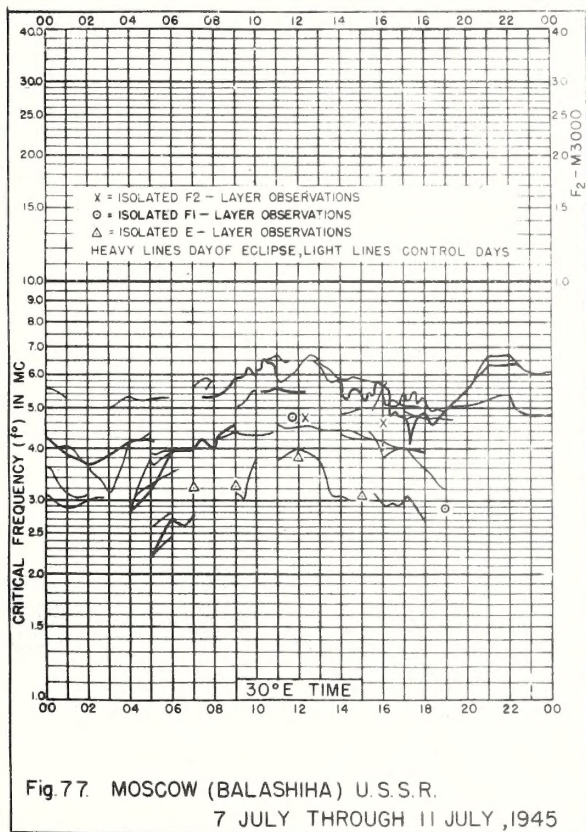
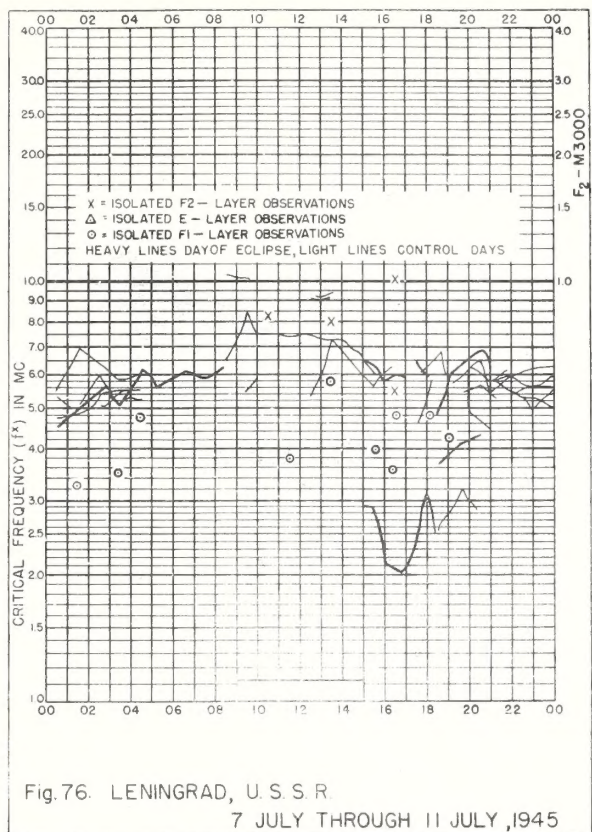


Fig. 75. KERMADEC IS

JUNE, 1945



CRPL AND IRPL REPORTS

Daily:

Telephoned and telegraphed reports of ionospheric, solar, geomagnetic, and radio propagation data from various places.
Radio disturbance warnings.

Weekly:

CRPL-J. Radio Propagation Forecast.

Semimonthly:

CRPL-Ja. Semimonthly Frequency Revision Factors for CRPL Basic Radio Propagation Prediction Reports. (Issued with CRPL-J series approximately one week in advance.)

Monthly:

CRPL-D. Basic Radio Propagation Predictions - Three months in advance. War Dept. TB 11-499, monthly supplements to TM 11-499; Navy Dept. (DNC-13-1()), monthly supplements to DNC-13-1). CRPL-D Series now available from Superintendent of Documents, U.S. Government Printing Office, Washington 25, D. C.

CRPL-F. Ionospheric Data.

Bimonthly:

IRPL-G. Correlation of D.F. Errors With Ionospheric Conditions.

Quarterly:

*IRPL-A. Recommended Frequency Bands for Ships and Aircraft in the Atlantic and Pacific.

*IRPL-H. Frequency Guide for Operating Personnel.

Special Reports, etc.:

IRPL Radio Propagation Handbook, Part 1. (War Dept. TM 11-499; Navy Dept. DNC-13-1.)

IRPL-C1 through C61. Reports and papers of the International Radio Propagation Conference, 17 April to 5 May 1944.

IRPL-R. Unscheduled reports:

R1. Maximum Usable Frequency Graph Paper.

R2 and R3. Obsolete.

R4. Methods Used by IRPL for the Prediction of Ionosphere Characteristics and Maximum Usable Frequencies.

R5. Criteria for Ionospheric Storminess.

R6. Experimental Studies of Ionospheric Propagation As Applied to The Loran System.

R7. Second Report on Experimental Studies of Ionospheric Propagation As Applied to The Loran System.

R8. The Prediction of Usable Frequencies Over a Path of Short or Medium Length, Including the Effects of Es.

R9. An Automatic Instantaneous Indicator of Skip Distance and MUF.

R10. A Proposal for the Use of Rockets for the Study of the Ionosphere.

R11. A Monographic Method for Both Prediction and Observation Correlation of Ionosphere Characteristics.

R12. Short Time Variations in Ionospheric Characteristics.

R13. Ionospheric and Radio Propagation Disturbances, October 1943 Through February 1945.

R14. A Graphical Method for Calculating Ground Reflection Coefficients.

R15. Predicted Limits for F2-layer Radio Transmission Throughout the Solar Cycle.

R16. Predicted F2-layer Frequencies Throughout the Solar Cycle, for Summer, Winter, and Equinox Season.

R17. Japanese Ionospheric Data - 1943.

R18. Comparison of Geomagnetic Records and North Atlantic Radio Propagation Quality Figures - October 1943 through May 1945.

R19. Monographic Predictions of F2-layer Frequencies Throughout the Solar Cycle, for June.

R20. Monographic Predictions of F2-layer Frequencies Throughout the Solar Cycle, for September.

R21. Notes on the Preparation of Skip-Distance and MUF Charts for Use by Direction-Finder Stations. (For distances out to 4000 km.)

R22. Monographic Predictions of F2-layer Frequencies Throughout the Solar Cycle, for December.

R23. Solar-Cycle Data for Correlation With Radio Propagation Phenomena.

R24. Relations between Band Width, Pulse Shape and Usefulness of Pulses in The Loran System.

R25. The Prediction of Solar Activity as a Basis for Predictions of Radio Propagation Phenomena.

R26. The Ionosphere as a Measure of Solar Activity.

R27. Relationships Between Radio Propagation Disturbance and Central Meridian Passage of Sunspots Grouped by Distance From Center of Disc.

R28. Monographic Predictions of F2-Layer Frequencies Throughout the Solar Cycle for January.

R29. Revised Classification of Radio Subjects Used in National Bureau of Standards (N.B.S. Letter Circular LC-814 superseding circular C385).

R30. Disturbance Rating in Values of IRPL Quality - Figure Scale From A. T. & T. Co. Transmission Disturbance Reports to Replace T.D. Figures as Reported.

R31. North Atlantic Radio Propagation Disturbances, October 1943 through October 1945.

R32. Monographic Predictions of F2-Layer Frequencies Throughout the Solar Cycle, for February.

R33. Ionospheric Data on File at IRPL.

R34. The Interpretation of Recorded Values of fEs.

R35. Comparison of Percentage of Total Time of Occurrence of Second-Multiple Es Reflections and That of fEs in Excess of 3 Mc.

IRPL-T. Reports on Tropospheric Propagation.

T1. Radar Operation and Weather. (Superseded by JANP 101.)

T2. Radar Coverage and Weather. (Superseded by JANP 102.)

*Items bearing this symbol are distributed only by U.S. Navy in NONREGISTERED PUBLICATIONS MEMORANDA (NRP). IRPL-A and -H issued under one cover with NRP identifying numbers.

